

Dear 5th Graders and Parents,

The following packet is created to serve as a review of your fifth grade year. By completing the attached problems, you will continue to practice concepts you have already learned as well as sharpening your basic skills. If you are not yet fluent in your multiplication facts, that should be a goal of yours over the summer. Fact fluency is critical to most of the activities we do in 6th grade. This packet is long, so do the even numbered problems only. However, if there is a section that gives you trouble, you have the odd numbered problems for extra practice. The answer key is provided for you to check your work at the end of each page. Please check off answers as you check them against the key. If the answer is wrong, try again, see if you can find your mistake. Have a great summer, and good luck in 6th grade! Bring your packet in the first day of school to Mrs. Willoz.

Mrs. Gutierrez

Summer Math
Review

Name _____

Date _____

Adding Multi-Digit Numbers

Total Problems: 24
Problems Correct: _____

Solve each problem. Regroup when necessary.

1.
$$\begin{array}{r} 56 \\ + 32 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 125 \\ + 832 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4,287 \\ + 907 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 2,703 \\ + 9,006 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 21,027 \\ + 68,509 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 17 \\ + 81 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 687 \\ + 407 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 1,287 \\ + 406 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 1,551 \\ + 3,287 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 32,578 \\ + 10,781 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 95 \\ + 59 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 531 \\ + 450 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 3,572 \\ + 261 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 4,692 \\ + 7,841 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 54,392 \\ + 62,158 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 27 \\ + 42 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 501 \\ + 225 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 5,983 \\ + 742 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 6,031 \\ + 3,275 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 35 \\ + 80 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 387 \\ + 122 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 6,401 \\ + 578 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 8,762 \\ + 5,137 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 40,226 \\ + 37,822 \\ \hline \end{array}$$

Name _____

Date _____

Multi-Digit Column AdditionTotal Problems: **20**

Problems Correct: _____

Solve each problem. Regroup when necessary.

$$\begin{array}{r} 1. \quad 234 \\ \quad 862 \\ + 335 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 1,767 \\ \quad 8,403 \\ + 2,759 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 50,251 \\ \quad \quad 339 \\ + \quad 42 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 67,107 \\ \quad 53,001 \\ \quad 42,902 \\ + \quad 107 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 187 \\ \quad 384 \\ + 416 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5,570 \\ \quad 4,867 \\ + 3,210 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 69,721 \\ \quad 4,065 \\ + \quad 13 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5,545 \\ \quad \quad 632 \\ \quad \quad 19 \\ + \quad 45 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 486 \\ \quad 582 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 1,257 \\ \quad 4,380 \\ + 9,621 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 8,609 \\ \quad 786 \\ + \quad 52 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 7,840 \\ \quad 2,129 \\ \quad \quad 616 \\ + \quad 53 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 875 \\ \quad 934 \\ + 17 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 6,357 \\ \quad 1,876 \\ + 5,072 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 52,103 \\ \quad 47,339 \\ + \quad 857 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 2,531 \\ \quad 682 \\ \quad 550 \\ + \quad 49 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 416 \\ \quad 502 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 1,275 \\ \quad 2,654 \\ + 3,023 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 78,695 \\ \quad 4,072 \\ + 3,210 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 8,749 \\ \quad 7,263 \\ \quad 521 \\ + \quad 84 \\ \hline \end{array}$$

Name _____

Date _____

Subtracting Two- and Three-Digit Numbers

Total Problems:	24
Problems Correct:	_____

Solve each problem. Regroup when necessary.

1.
$$\begin{array}{r} 286 \\ - 57 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 991 \\ - 85 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 875 \\ - 407 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 497 \\ - 322 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 603 \\ - 571 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 382 \\ - 96 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 997 \\ - 61 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 962 \\ - 509 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 625 \\ - 592 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 827 \\ - 694 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 186 \\ - 52 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 863 \\ - 54 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 875 \\ - 445 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 940 \\ - 185 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 307 \\ - 283 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 525 \\ - 63 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 415 \\ - 78 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 786 \\ - 616 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 876 \\ - 652 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 125 \\ - 116 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 400 \\ - 88 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 321 \\ - 39 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 521 \\ - 431 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 785 \\ - 504 \\ \hline \end{array}$$

Name _____

Date _____

Subtracting Multi-Digit Numbers

Total Problems:	25
Problems Correct:	_____

Solve each problem. Regroup when necessary.

$$\begin{array}{r} 1. \quad 8,907 \\ - \quad 52 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4,301 \\ - \quad 225 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 22,107 \\ - \quad 3,988 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 86,946 \\ - \quad 71,807 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 302,175 \\ - \quad 68,189 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 6,217 \\ - \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 5,681 \\ - \quad 309 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 31,257 \\ - \quad 4,071 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 47,810 \\ - \quad 22,516 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 496,502 \\ - \quad 10,498 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 8,357 \\ - \quad 78 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 7,662 \\ - \quad 447 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 46,689 \\ - \quad 5,672 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 25,300 \\ - \quad 18,704 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 187,645 \\ - \quad 53,217 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 1,358 \\ - \quad 32 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 5,432 \\ - \quad 151 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 76,571 \\ - \quad 6,229 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 6,219 \\ - \quad 52 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 8,719 \\ - \quad 582 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 52,398 \\ - \quad 1,028 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad 86,107 \\ - \quad 83,279 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 36,875 \\ - \quad 31,787 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 63,128 \\ - \quad 57,281 \\ \hline \end{array}$$

$$\begin{array}{r} 25. \quad 94,422 \\ - \quad 5,349 \\ \hline \end{array}$$

Multiplying Multi-Digit Numbers

Total Problems: **24**
Problems Correct: _____

Solve each problem. Regroup when necessary.

1.
$$\begin{array}{r} 87 \\ \times 5 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 72 \\ \times 18 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 425 \\ \times 15 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 303 \\ \times 83 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 187 \\ \times 26 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 93 \\ \times 6 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 63 \\ \times 25 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 313 \\ \times 72 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 442 \\ \times 81 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 593 \\ \times 45 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 84 \\ \times 3 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 42 \\ \times 28 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 81 \\ \times 53 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 872 \\ \times 20 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 351 \\ \times 67 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 52 \\ \times 4 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 75 \\ \times 21 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 21 \\ \times 10 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 214 \\ \times 87 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 109 \\ \times 15 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 12 \\ \times 9 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 16 \\ \times 8 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 87 \\ \times 26 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 99 \\ \times 21 \\ \hline \end{array}$$

Name _____

Date _____

Multiplying Multi-Digit Numbers

Total Problems: 20

Problems Correct: _____

Solve each problem. Regroup when necessary.

1.
$$\begin{array}{r} 918 \\ \times 55 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 755 \\ \times 221 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 618 \\ \times 500 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 1,242 \\ \times 687 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 437 \\ \times 22 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 832 \\ \times 106 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 391 \\ \times 125 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 3,861 \\ \times 392 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 518 \\ \times 42 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 391 \\ \times 535 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 482 \\ \times 663 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 4,369 \\ \times 873 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 925 \\ \times 54 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 851 \\ \times 462 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 331 \\ \times 528 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 7,421 \\ \times 694 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 622 \\ \times 33 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 795 \\ \times 787 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 435 \\ \times 683 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 5,872 \\ \times 515 \\ \hline \end{array}$$

Name _____

Date _____

Division with One-Digit Quotients

Total Problems:	24
Problems Correct:	_____

Solve each problem.

1. $8\overline{)64}$

2. $5\overline{)25}$

3. $6\overline{)30}$

4. $5\overline{)40}$

5. $4\overline{)20}$

6. $9\overline{)81}$

7. $8\overline{)24}$

8. $7\overline{)77}$

9. $8\overline{)32}$

10. $9\overline{)27}$

11. $7\overline{)42}$

12. $6\overline{)54}$

13. $6\overline{)36}$

14. $3\overline{)12}$

15. $5\overline{)30}$

16. $8\overline{)56}$

17. $8\overline{)16}$

18. $5\overline{)35}$

19. $7\overline{)14}$

20. $9\overline{)36}$

21. $6\overline{)24}$

22. $9\overline{)90}$

23. $9\overline{)63}$

24. $6\overline{)60}$

Name _____

Date _____

Division with One-Digit Quotients

Total Problems: 20
Problems Correct: _____

Solve each problem.

1. $4 \overline{)100}$

2. $2 \overline{)132}$

3. $3 \overline{)225}$

4. $9 \overline{)198}$

5. $2 \overline{)902}$

6. $7 \overline{)112}$

7. $6 \overline{)510}$

8. $4 \overline{)216}$

9. $6 \overline{)426}$

10. $2 \overline{)630}$

11. $3 \overline{)138}$

12. $9 \overline{)369}$

13. $8 \overline{)624}$

14. $6 \overline{)396}$

15. $8 \overline{)648}$

16. $5 \overline{)310}$

17. $5 \overline{)425}$

18. $7 \overline{)672}$

19. $3 \overline{)864}$

20. $7 \overline{)966}$

Name _____

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**Division with One- and Two-Digit Quotients
and Remainders**

Total Problems:	20
Problems Correct:	_____

Solve each problem.

1. $8 \overline{)75}$

2. $24 \overline{)107}$

3. $48 \overline{)541}$

4. $18 \overline{)472}$

5. $22 \overline{)514}$

6. $4 \overline{)67}$

7. $16 \overline{)451}$

8. $62 \overline{)754}$

9. $23 \overline{)685}$

10. $42 \overline{)684}$

11. $6 \overline{)68}$

12. $32 \overline{)187}$

13. $13 \overline{)541}$

14. $46 \overline{)931}$

15. $52 \overline{)315}$

16. $3 \overline{)79}$

17. $51 \overline{)823}$

18. $72 \overline{)843}$

19. $50 \overline{)657}$

20. $37 \overline{)562}$

Name _____

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**Division with Two- and Three-Digit Quotients
and Remainders**

Total Problems:	20
Problems Correct:	_____

Solve each problem.

1. $28 \overline{)1,570}$

2. $36 \overline{)4,587}$

3. $81 \overline{)9,758}$

4. $561 \overline{)6,398}$

5. $122 \overline{)6,387}$

6. $16 \overline{)2,154}$

7. $97 \overline{)1,863}$

8. $19 \overline{)3,786}$

9. $117 \overline{)2,573}$

10. $184 \overline{)2,514}$

11. $47 \overline{)5,024}$

12. $65 \overline{)7,641}$

13. $24 \overline{)4,597}$

14. $264 \overline{)5,219}$

15. $512 \overline{)4,287}$

16. $53 \overline{)4,523}$

17. $72 \overline{)8,942}$

18. $38 \overline{)4,264}$

19. $435 \overline{)8,708}$

20. $371 \overline{)6,737}$

Name _____

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Making Fractions EquivalentTotal Problems: **20**

Problems Correct: _____

Make each pair of fractions equivalent.

1. $\frac{1}{2} = \frac{\quad}{4}$

2. $\frac{3}{5} = \frac{\quad}{20}$

3. $\frac{5}{6} = \frac{\quad}{42}$

4. $\frac{3}{4} = \frac{\quad}{12}$

5. $\frac{2}{3} = \frac{\quad}{12}$

6. $\frac{1}{5} = \frac{\quad}{25}$

7. $\frac{1}{4} = \frac{\quad}{8}$

8. $\frac{2}{7} = \frac{4}{\quad}$

9. $\frac{3}{7} = \frac{\quad}{28}$

10. $\frac{1}{3} = \frac{3}{\quad}$

11. $\frac{2}{3} = \frac{\quad}{15}$

12. $\frac{1}{8} = \frac{8}{\quad}$

13. $\frac{2}{5} = \frac{6}{\quad}$

14. $\frac{3}{4} = \frac{9}{\quad}$

15. $\frac{6}{7} = \frac{\quad}{14}$

16. $\frac{4}{5} = \frac{12}{\quad}$

Fill in the numbers to complete each row, making each fraction equivalent to the first one.

17. $\frac{1}{2} = \frac{\quad}{6} = \frac{4}{\quad} = \frac{\quad}{12} = \frac{2}{\quad} = \frac{\quad}{10}$

18. $\frac{2}{3} = \frac{\quad}{12} = \frac{4}{\quad} = \frac{\quad}{15} = \frac{6}{\quad} = \frac{\quad}{18}$

19. $\frac{1}{4} = \frac{\quad}{8} = \frac{5}{\quad} = \frac{\quad}{12} = \frac{6}{\quad} = \frac{\quad}{16}$

20. $\frac{3}{5} = \frac{\quad}{25} = \frac{9}{\quad} = \frac{\quad}{10} = \frac{12}{\quad} = \frac{\quad}{30}$

Name _____

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Comparing Fractions

Total Problems:	15
Problems Correct:	_____

Write $>$, $<$, or $=$ to make each statement true.

1. $\frac{1}{2} \bigcirc \frac{4}{8}$

2. $\frac{2}{5} \bigcirc \frac{3}{4}$

3. $\frac{5}{6} \bigcirc \frac{7}{8}$

4. $\frac{5}{8} \bigcirc \frac{13}{32}$

5. $\frac{1}{8} \bigcirc \frac{3}{5}$

6. $\frac{1}{4} \bigcirc \frac{2}{3}$

7. $\frac{1}{6} \bigcirc \frac{1}{3}$

8. $\frac{4}{5} \bigcirc \frac{16}{20}$

9. $\frac{2}{3} \bigcirc \frac{1}{5}$

10. $\frac{1}{2} \bigcirc \frac{4}{5}$

11. $\frac{11}{16} \bigcirc \frac{3}{8}$

12. $\frac{4}{7} \bigcirc \frac{1}{2}$

Rewrite each series of fractions so that they have like denominators. Order each series from smallest to largest. Then, write each fraction in simplest form.

Same denominator,
smallest to largest

Simplest form

13. $\frac{1}{3}, \frac{3}{4}, \frac{1}{2}$

14. $\frac{5}{6}, \frac{2}{9}, \frac{1}{3}$

15. $\frac{1}{6}, \frac{7}{8}, \frac{3}{4}$

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Finding the Greatest Common FactorTotal Problems: **10**

Problems Correct: _____

List the common factors of the numerator and denominator of each fraction. Then, write the greatest common factor (GCF). Divide the numerator and denominator by the GCF and write each fraction in simplest form.

	Fraction	Common Factors	GCF	Simplest Form
1.	$\frac{10}{12}$			
2.	$\frac{18}{27}$			
3.	$\frac{25}{100}$			
4.	$\frac{5}{30}$			
5.	$\frac{12}{30}$			
6.	$\frac{24}{32}$			
7.	$\frac{14}{21}$			
8.	$\frac{8}{40}$			
9.	$\frac{15}{18}$			
10.	$\frac{10}{20}$			

Name _____

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Writing Fractions in Simplest FormTotal Problems: **24**

Problems Correct: _____

Write each fraction or mixed number in simplest form.

1. $\frac{6}{8} =$

2. $\frac{6}{15} =$

3. $\frac{27}{81} =$

4. $2\frac{24}{30} =$

5. $4\frac{4}{8} =$

6. $\frac{2}{4} =$

7. $\frac{2}{10} =$

8. $\frac{12}{24} =$

9. $3\frac{12}{18} =$

10. $5\frac{10}{15} =$

11. $\frac{15}{18} =$

12. $\frac{20}{40} =$

13. $\frac{10}{15} =$

14. $1\frac{18}{20} =$

15. $3\frac{6}{9} =$

16. $\frac{16}{24} =$

17. $\frac{16}{32} =$

18. $\frac{14}{21} =$

19. $4\frac{3}{24} =$

20. $2\frac{8}{32} =$

21. $\frac{10}{40} =$

22. $\frac{56}{64} =$

23. $3\frac{6}{18} =$

24. $\frac{48}{50} =$

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Writing Mixed Numbers as Improper Fractions

Total Problems: 12

Problems Correct: _____

Write each mixed number as an improper fraction.

1. $2\frac{5}{8} =$

2. $3\frac{6}{7} =$

3. $8\frac{5}{11} =$

4. $8\frac{2}{3} =$

5. $4\frac{1}{2} =$

6. $8\frac{7}{8} =$

7. $3\frac{3}{10} =$

8. $2\frac{3}{5} =$

9. $6\frac{3}{4} =$

10. $2\frac{1}{9} =$

11. $4\frac{5}{12} =$

12. $5\frac{5}{7} =$

Name _____ Date _____

Writing Improper Fractions as Mixed Numbers

Total Problems: 10
Problems Correct: _____

Write each improper fraction as a mixed number.

1. $\frac{15}{8} = 8 \overline{)15} =$

2. $\frac{25}{13} = 13 \overline{)25} =$

3. $\frac{54}{7} = 7 \overline{)54} =$

4. $\frac{29}{5} = \overline{\hspace{1cm}} =$

5. $\frac{85}{22} = \overline{\hspace{1cm}} =$

6. $\frac{10}{4} = \overline{\hspace{1cm}} =$

7. $\frac{62}{8} = \overline{\hspace{1cm}} =$

8. $\frac{34}{10} = \overline{\hspace{1cm}} =$

9. $\frac{43}{16} = \overline{\hspace{1cm}} =$

10. $\frac{33}{7} = \overline{\hspace{1cm}} =$

Fractions Review

Total Problems:	25
Problems Correct:	_____

Make each pair of fractions equivalent.

1. $\frac{3}{4} = \frac{\quad}{16}$

2. $\frac{5}{6} = \frac{\quad}{30}$

3. $\frac{3}{8} = \frac{\quad}{32}$

4. $\frac{1}{3} = \frac{3}{\quad}$

5. $\frac{5}{12} = \frac{25}{\quad}$

6. $\frac{1}{5} = \frac{5}{\quad}$

Write <, >, or = to make each statement true.

7. $3 \bigcirc \frac{6}{5}$

8. $\frac{7}{9} \bigcirc \frac{5}{18}$

9. $\frac{3}{4} \bigcirc \frac{2}{3}$

10. $\frac{1}{2} \bigcirc \frac{1}{3}$

11. $\frac{12}{24} \bigcirc \frac{1}{2}$

12. $\frac{7}{8} \bigcirc \frac{7}{16}$

List the common factors of the numerator and denominator of each fraction. Then, write the GCF. Divide the numerator and denominator by the GCF and write each fraction in simplest form.

	Fraction	Common Factors	GCF	Simplest Form
13.	$\frac{12}{24}$			
14.	$\frac{21}{28}$			
15.	$\frac{16}{32}$			
16.	$\frac{45}{54}$			

Write each improper fraction as a mixed number.

17. $\frac{25}{15} =$

18. $\frac{43}{16} =$

19. $\frac{64}{10} =$

20. $\frac{30}{14} =$

21. $\frac{32}{9} =$

22. $\frac{10}{8} =$

23. $\frac{12}{7} =$

24. $\frac{16}{12} =$

25. $\frac{14}{3} =$

Name _____

Date _____

Finding the Least Common Denominator

Total Problems: 12

Problems Correct: _____

Find the least common denominator (LCD) for each pair of fractions.

1. $\frac{3}{5}, \frac{3}{7}$ _____

2. $\frac{1}{3}, \frac{1}{5}$ _____

3. $\frac{3}{5}, \frac{3}{8}$ _____

4. $\frac{1}{3}, \frac{3}{4}$ _____

5. $\frac{3}{4}, \frac{1}{5}$ _____

6. $\frac{3}{6}, \frac{1}{2}$ _____

7. $\frac{1}{4}, \frac{3}{8}$ _____

8. $\frac{1}{6}, \frac{2}{3}$ _____

9. $\frac{2}{5}, \frac{1}{2}$ _____

10. $\frac{5}{6}, \frac{3}{5}$ _____

11. $\frac{7}{8}, \frac{2}{3}$ _____

12. $\frac{1}{4}, \frac{1}{2}$ _____

Name _____

Date _____

Adding Fractions with Like DenominatorsTotal Problems: **15**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{1}{3} + \frac{2}{3} =$

2. $\frac{1}{9} + \frac{2}{9} =$

3. $\frac{3}{6} + \frac{2}{6} =$

4. $\frac{2}{7} + \frac{4}{7} =$

5. $\frac{5}{15} + \frac{2}{15} =$

6. $\frac{1}{4} + \frac{3}{4} =$

7. $\frac{3}{8} + \frac{7}{8} =$

8. $\frac{5}{9} + \frac{8}{9} =$

9. $\frac{7}{12} + \frac{2}{12} =$

10. $\frac{9}{13} + \frac{8}{13} =$

11. $\frac{1}{7} + \frac{4}{7} =$

12. $\frac{7}{10} + \frac{1}{10} =$

13. $\frac{1}{2} + \frac{1}{2} =$

14. $\frac{2}{5} + \frac{5}{5} =$

15. $\frac{4}{12} + \frac{3}{12} =$

Name _____

Date _____

Adding Fractions with Like DenominatorsTotal Problems: **16**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1.
$$\begin{array}{r} \frac{4}{9} \\ + \frac{2}{9} \\ \hline \end{array}$$

2.
$$\begin{array}{r} \frac{5}{6} \\ + \frac{1}{6} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{5}{8} \\ + \frac{1}{8} \\ \hline \end{array}$$

4.
$$\begin{array}{r} \frac{4}{5} \\ + \frac{2}{5} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{1}{5} \\ + \frac{2}{5} \\ \hline \end{array}$$

6.
$$\begin{array}{r} \frac{3}{7} \\ + \frac{1}{7} \\ \hline \end{array}$$

7.
$$\begin{array}{r} \frac{1}{3} \\ + \frac{1}{3} \\ \hline \end{array}$$

8.
$$\begin{array}{r} \frac{10}{13} \\ + \frac{11}{13} \\ \hline \end{array}$$

9.
$$\begin{array}{r} \frac{7}{12} \\ + \frac{5}{12} \\ \hline \end{array}$$

10.
$$\begin{array}{r} \frac{2}{15} \\ + \frac{3}{15} \\ \hline \end{array}$$

11.
$$\begin{array}{r} \frac{2}{17} \\ + \frac{4}{17} \\ \hline \end{array}$$

12.
$$\begin{array}{r} \frac{5}{18} \\ + \frac{3}{18} \\ \hline \end{array}$$

13.
$$\begin{array}{r} \frac{7}{10} \\ + \frac{7}{10} \\ \hline \end{array}$$

14.
$$\begin{array}{r} \frac{9}{11} \\ + \frac{6}{11} \\ \hline \end{array}$$

15.
$$\begin{array}{r} \frac{4}{10} \\ + \frac{2}{10} \\ \hline \end{array}$$

16.
$$\begin{array}{r} \frac{1}{2} \\ + \frac{1}{2} \\ \hline \end{array}$$

Name _____

Date _____

Adding Fractions with Unlike DenominatorsTotal Problems: **15**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{1}{2} + \frac{2}{5} =$

2. $\frac{1}{6} + \frac{3}{4} =$

3. $\frac{1}{8} + \frac{3}{4} =$

4. $\frac{2}{3} + \frac{3}{4} =$

5. $\frac{5}{12} + \frac{2}{10} =$

6. $\frac{2}{3} + \frac{3}{5} =$

7. $\frac{3}{7} + \frac{1}{3} =$

8. $\frac{1}{9} + \frac{2}{7} =$

9. $\frac{7}{10} + \frac{3}{12} =$

10. $\frac{1}{6} + \frac{3}{5} =$

11. $\frac{1}{4} + \frac{3}{8} =$

12. $\frac{1}{10} + \frac{2}{11} =$

13. $\frac{2}{5} + \frac{1}{3} =$

14. $\frac{2}{7} + \frac{5}{6} =$

15. $\frac{3}{5} + \frac{1}{10} =$

Name _____

Date _____

Adding Mixed Numbers with Like Denominators

Total Problems:	12
Problems Correct:	_____

Solve each problem. Write each answer in simplest form.

1. $3\frac{1}{4} + 2\frac{2}{4} =$

2. $5\frac{1}{3} + 2\frac{1}{3} =$

3. $5\frac{8}{9} + 6\frac{2}{9} =$

4. $5\frac{1}{8} + 6\frac{5}{8} =$

5. $5\frac{1}{8} + 2\frac{3}{8} =$

6. $3\frac{1}{6} + 2\frac{1}{6} =$

7. $4\frac{4}{5} + 3\frac{3}{5} =$

8. $4\frac{1}{3} + 5\frac{2}{3} =$

9. $7\frac{2}{9} + 1\frac{5}{9} =$

10. $2\frac{2}{5} + 1\frac{3}{5} =$

11. $2\frac{5}{7} + 3\frac{6}{7} =$

12. $7\frac{5}{6} + 8\frac{4}{6} =$

Name _____

Date _____

Adding Mixed Numbers with Unlike DenominatorsTotal Problems: **15**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $4\frac{1}{8} + 5\frac{3}{4} =$

2. $4\frac{7}{8} + 6\frac{1}{4} =$

3. $4\frac{3}{4} + 1\frac{2}{3} =$

4. $4\frac{1}{8} + 5\frac{1}{5} =$

5. $8\frac{3}{4} + 7\frac{3}{16} =$

6. $6\frac{1}{2} + 6\frac{2}{5} =$

7. $8\frac{1}{3} + 2\frac{3}{7} =$

8. $5\frac{1}{8} + 6\frac{2}{5} =$

9. $1\frac{9}{10} + 3\frac{1}{4} =$

10. $2\frac{3}{4} + 3\frac{5}{6} =$

11. $3\frac{1}{9} + 2\frac{1}{3} =$

12. $5\frac{2}{3} + 7\frac{3}{7} =$

13. $2\frac{5}{6} + 3\frac{1}{3} =$

14. $5\frac{1}{2} + 6\frac{2}{7} =$

15. $5\frac{5}{15} + 2\frac{3}{5} =$

Name _____

Date _____

Subtracting Fractions with Like DenominatorsTotal Problems: **20**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{2}{5} - \frac{1}{5} =$

2. $\frac{5}{7} - \frac{2}{7} =$

3. $\frac{3}{5} - \frac{1}{5} =$

4. $\frac{2}{8} - \frac{1}{8} =$

5. $\frac{2}{4} - \frac{1}{4} =$

6. $\frac{7}{8} - \frac{3}{8} =$

7. $\frac{2}{3} - \frac{1}{3} =$

8. $\frac{7}{9} - \frac{5}{9} =$

9. $\frac{4}{6} - \frac{1}{6} =$

10. $\frac{4}{7} - \frac{2}{7} =$

11. $\frac{7}{10} - \frac{3}{10} =$

12. $\frac{7}{8} - \frac{5}{8} =$

13. $\frac{3}{4} - \frac{2}{4} =$

14. $\frac{5}{9} - \frac{1}{9} =$

15. $\frac{4}{8} - \frac{1}{8} =$

16. $\frac{11}{14} - \frac{9}{14} =$

17. $\frac{5}{6} - \frac{1}{6} =$

18. $\frac{4}{5} - \frac{2}{5} =$

19. $\frac{1}{2} - \frac{1}{2} =$

20. $\frac{3}{5} - \frac{2}{5} =$

Name _____

Date _____

Subtracting Fractions with Unlike Denominators**Total Problems: 20**
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1.
$$\begin{array}{r} \frac{3}{9} \\ - \frac{1}{4} \\ \hline \end{array}$$

2.
$$\begin{array}{r} \frac{3}{4} \\ - \frac{1}{5} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{4}{5} \\ - \frac{5}{10} \\ \hline \end{array}$$

4.
$$\begin{array}{r} \frac{5}{7} \\ - \frac{2}{9} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{2}{3} \\ - \frac{4}{9} \\ \hline \end{array}$$

6.
$$\begin{array}{r} \frac{3}{8} \\ - \frac{2}{6} \\ \hline \end{array}$$

7.
$$\begin{array}{r} \frac{2}{4} \\ - \frac{1}{3} \\ \hline \end{array}$$

8.
$$\begin{array}{r} \frac{1}{5} \\ - \frac{1}{8} \\ \hline \end{array}$$

9.
$$\begin{array}{r} \frac{7}{12} \\ - \frac{1}{4} \\ \hline \end{array}$$

10.
$$\begin{array}{r} \frac{3}{9} \\ - \frac{1}{3} \\ \hline \end{array}$$

11.
$$\begin{array}{r} \frac{7}{8} \\ - \frac{1}{2} \\ \hline \end{array}$$

12.
$$\begin{array}{r} \frac{8}{8} \\ - \frac{4}{6} \\ \hline \end{array}$$

13.
$$\begin{array}{r} \frac{2}{3} \\ - \frac{1}{2} \\ \hline \end{array}$$

14.
$$\begin{array}{r} \frac{1}{2} \\ - \frac{1}{4} \\ \hline \end{array}$$

15.
$$\begin{array}{r} \frac{1}{3} \\ - \frac{1}{6} \\ \hline \end{array}$$

16.
$$\begin{array}{r} \frac{8}{9} \\ - \frac{3}{6} \\ \hline \end{array}$$

17.
$$\begin{array}{r} \frac{5}{6} \\ - \frac{1}{5} \\ \hline \end{array}$$

18.
$$\begin{array}{r} \frac{7}{8} \\ - \frac{3}{10} \\ \hline \end{array}$$

19.
$$\begin{array}{r} \frac{9}{12} \\ - \frac{2}{11} \\ \hline \end{array}$$

20.
$$\begin{array}{r} \frac{6}{6} \\ - \frac{3}{12} \\ \hline \end{array}$$

Name _____

Date _____

Subtracting Fractions from Whole NumbersTotal Problems: **16**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad 15 \\ - \quad \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 5 \\ - \quad \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 1 \\ - \quad \frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8 \\ - \quad \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 10 \\ - \quad \frac{2}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 9 \\ - \quad \frac{3}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 6 \\ - \quad \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 4 \\ - \quad \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 1 \\ - \quad \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 14 \\ - \quad \frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 7 \\ - \quad \frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 2 \\ - \quad \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 2 \\ - \quad \frac{6}{11} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 13 \\ - \quad \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 5 \\ - \quad \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 6 \\ - \quad \frac{3}{7} \\ \hline \end{array}$$

Name _____

Date _____

Subtracting Fractions from Whole Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 16
Problems Correct: _____

1.
$$\begin{array}{r} 2 \\ - \frac{7}{8} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 3 \\ - \frac{3}{4} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 5 \\ - \frac{6}{9} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 12 \\ - \frac{5}{7} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 4 \\ - \frac{2}{5} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 8 \\ - \frac{9}{10} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 4 \\ - \frac{2}{6} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 9 \\ - \frac{1}{3} \\ \hline \end{array}$$

9.
$$\begin{array}{r} 5 \\ - \frac{2}{3} \\ \hline \end{array}$$

10.
$$\begin{array}{r} 7 \\ - \frac{4}{5} \\ \hline \end{array}$$

11.
$$\begin{array}{r} 5 \\ - \frac{2}{5} \\ \hline \end{array}$$

12.
$$\begin{array}{r} 4 \\ - \frac{7}{8} \\ \hline \end{array}$$

13.
$$\begin{array}{r} 6 \\ - \frac{1}{8} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 4 \\ - \frac{3}{10} \\ \hline \end{array}$$

15.
$$\begin{array}{r} 10 \\ - \frac{1}{2} \\ \hline \end{array}$$

16.
$$\begin{array}{r} 3 \\ - \frac{6}{7} \\ \hline \end{array}$$

Name _____

Date _____

Subtracting Mixed Numbers with Like Denominators

Total Problems:	16
Problems Correct:	_____

Solve each problem. Write each answer in simplest form.

1.
$$\begin{array}{r} 8\frac{4}{5} \\ -1\frac{1}{5} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 5\frac{3}{12} \\ -2\frac{17}{12} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 5\frac{1}{3} \\ -4\frac{2}{3} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 7\frac{3}{5} \\ -5\frac{1}{5} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 5\frac{2}{3} \\ -4\frac{1}{3} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 3\frac{3}{5} \\ -1\frac{4}{5} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 5\frac{3}{8} \\ -3\frac{3}{8} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 4\frac{11}{13} \\ -2\frac{12}{13} \\ \hline \end{array}$$

9.
$$\begin{array}{r} 3\frac{1}{2} \\ -1\frac{1}{2} \\ \hline \end{array}$$

10.
$$\begin{array}{r} 10\frac{9}{4} \\ -7\frac{1}{4} \\ \hline \end{array}$$

11.
$$\begin{array}{r} 9\frac{6}{7} \\ -2\frac{2}{7} \\ \hline \end{array}$$

12.
$$\begin{array}{r} 7\frac{1}{6} \\ -5\frac{3}{6} \\ \hline \end{array}$$

13.
$$\begin{array}{r} 4\frac{2}{6} \\ -3\frac{5}{6} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 6\frac{7}{8} \\ -1\frac{1}{8} \\ \hline \end{array}$$

15.
$$\begin{array}{r} 2\frac{1}{8} \\ -1\frac{1}{8} \\ \hline \end{array}$$

16.
$$\begin{array}{r} 3\frac{7}{9} \\ -2\frac{1}{9} \\ \hline \end{array}$$

Name _____ Date _____

Subtracting Mixed Numbers with Unlike Denominators

Total Problems: 16
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad 12\frac{7}{8} \\ - 5\frac{5}{16} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 3\frac{1}{4} \\ - 2\frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 10\frac{2}{3} \\ - 9\frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 3\frac{1}{8} \\ - 1\frac{7}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 10\frac{2}{5} \\ - 7\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 8\frac{7}{10} \\ - 7\frac{9}{11} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 8\frac{5}{10} \\ - 7\frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5\frac{12}{16} \\ - 5\frac{11}{20} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 6\frac{1}{6} \\ - 5\frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 4\frac{5}{6} \\ - 2\frac{1}{24} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 8\frac{3}{16} \\ - 7\frac{5}{32} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 6\frac{1}{9} \\ - 2\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 2\frac{2}{3} \\ - 1\frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 9\frac{3}{5} \\ - 4\frac{9}{20} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 4\frac{11}{18} \\ - 1\frac{13}{16} \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 8\frac{7}{10} \\ - 6\frac{3}{40} \\ \hline \end{array}$$

Name _____

Date _____

Multiplying Fractions

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{1}{4} \times \frac{2}{5} =$

2. $\frac{2}{8} \times \frac{3}{6} =$

3. $\frac{1}{6} \times \frac{4}{5} =$

4. $\frac{1}{3} \times \frac{5}{6} =$

5. $\frac{4}{6} \times \frac{5}{7} =$

6. $\frac{3}{5} \times \frac{1}{8} =$

7. $\frac{5}{7} \times \frac{2}{4} =$

8. $\frac{3}{4} \times \frac{4}{7} =$

9. $\frac{3}{4} \times \frac{5}{5} =$

10. $\frac{1}{6} \times \frac{4}{5} =$

11. $\frac{5}{6} \times \frac{3}{4} =$

12. $\frac{3}{5} \times \frac{3}{7} =$

13. $\frac{2}{5} \times \frac{4}{9} =$

14. $\frac{2}{8} \times \frac{3}{3} =$

15. $\frac{1}{7} \times \frac{3}{4} =$

Name _____

Date _____

Multiplying Fractions

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{5}{8} \times \frac{3}{4} =$

2. $\frac{3}{4} \times \frac{2}{7} =$

3. $\frac{5}{7} \times \frac{3}{7} =$

4. $\frac{1}{2} \times \frac{3}{5} =$

5. $\frac{3}{6} \times \frac{7}{8} =$

6. $\frac{2}{9} \times \frac{4}{6} =$

7. $\frac{1}{2} \times \frac{5}{9} =$

8. $\frac{3}{8} \times \frac{1}{4} =$

9. $\frac{1}{4} \times \frac{3}{7} =$

10. $\frac{4}{5} \times \frac{5}{6} =$

11. $\frac{1}{2} \times \frac{3}{7} =$

12. $\frac{2}{3} \times \frac{3}{5} =$

13. $\frac{2}{6} \times \frac{2}{5} =$

14. $\frac{8}{9} \times \frac{1}{6} =$

15. $\frac{3}{6} \times \frac{8}{9} =$

Name _____

Date _____

Multiplying Fractions and Whole Numbers

Solve each problem. Write each answer in simplest form.

Total Problems:	15
Problems Correct:	_____

1. $4 \times \frac{1}{2} =$

2. $2 \times \frac{2}{5} =$

3. $4 \times \frac{2}{7} =$

4. $3 \times \frac{5}{6} =$

5. $8 \times \frac{1}{8} =$

6. $\frac{2}{5} \times 3 =$

7. $\frac{1}{8} \times 5 =$

8. $\frac{5}{7} \times 5 =$

9. $\frac{2}{3} \times 2 =$

10. $\frac{3}{9} \times 4 =$

11. $\frac{1}{3} \times 7 =$

12. $4 \times \frac{3}{4} =$

13. $\frac{6}{8} \times 2 =$

14. $5 \times \frac{4}{5} =$

15. $8 \times \frac{2}{5} =$

Name _____

Date _____

Multiplying Fractions and Whole Numbers

Total Problems:	15
Problems Correct:	_____

Solve each problem. Write each answer in simplest form.

1. $5 \times \frac{2}{5} =$

2. $8 \times \frac{1}{7} =$

3. $6 \times \frac{3}{8} =$

4. $4 \times \frac{8}{9} =$

5. $2 \times \frac{3}{7} =$

6. $\frac{2}{3} \times 4 =$

7. $\frac{1}{9} \times 6 =$

8. $\frac{5}{6} \times 4 =$

9. $\frac{4}{6} \times 3 =$

10. $\frac{4}{5} \times 6 =$

11. $\frac{3}{4} \times 5 =$

12. $2 \times \frac{4}{5} =$

13. $\frac{2}{7} \times 6 =$

14. $7 \times \frac{3}{5} =$

15. $9 \times \frac{3}{4} =$

Name _____

Date _____

Multiplying Mixed Numbers and Whole NumbersTotal Problems: **12**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $2 \times 2\frac{1}{3} =$

2. $3 \times 5\frac{1}{5} =$

3. $9 \times 3\frac{2}{3} =$

4. $8 \times 9\frac{1}{10} =$

5. $4 \times 5\frac{1}{8} =$

6. $6 \times 3\frac{1}{6} =$

7. $5 \times 6\frac{5}{8} =$

8. $3 \times 9\frac{1}{3} =$

9. $7 \times 1\frac{3}{4} =$

10. $7 \times 2\frac{3}{5} =$

11. $4 \times 2\frac{1}{2} =$

12. $7 \times 2\frac{1}{7} =$

Name _____

Date _____

Multiplying Mixed Numbers and Whole Numbers

Total Problems:	12
Problems Correct:	_____

Solve each problem. Write each answer in simplest form.

1. $4 \times 3\frac{3}{5} =$

2. $6 \times 9\frac{4}{5} =$

3. $2 \times 8\frac{3}{4} =$

4. $9 \times 1\frac{1}{18} =$

5. $10 \times 5\frac{1}{2} =$

6. $8 \times 2\frac{3}{8} =$

7. $5 \times 4\frac{2}{5} =$

8. $2 \times 7\frac{5}{8} =$

9. $2 \times 5\frac{1}{8} =$

10. $3 \times 1\frac{15}{16} =$

11. $4 \times 8\frac{6}{7} =$

12. $2 \times 2\frac{1}{4} =$

Name _____ Date _____

Finding the Reciprocal

Total Problems: **16**
Problems Correct: _____

Find the reciprocal of each fraction or whole number.

1. $\frac{3}{5}$ _____

2. $\frac{2}{3}$ _____

3. 9 _____

4. $\frac{5}{3}$ _____

5. $\frac{7}{3}$ _____

6. $\frac{6}{3}$ _____

7. $\frac{1}{12}$ _____

8. $\frac{9}{10}$ _____

9. $\frac{2}{17}$ _____

10. $\frac{9}{1}$ _____

11. 6 _____

12. $\frac{4}{2}$ _____

Change each mixed number to an improper fraction. Then, find its reciprocal.

	Fraction	Reciprocal
13. $2\frac{3}{5} =$	_____	_____
14. $1\frac{3}{4} =$	_____	_____
15. $3\frac{7}{8} =$	_____	_____
16. $6\frac{2}{5} =$	_____	_____

Name _____

Date _____

Dividing Fractions

Total Problems:	15
Problems Correct:	_____

Solve each problem. Write each answer in simplest form.

1. $\frac{3}{5} \div \frac{5}{6} =$

2. $\frac{5}{8} \div \frac{3}{5} =$

3. $\frac{7}{10} \div \frac{3}{5} =$

4. $\frac{4}{7} \div \frac{3}{7} =$

5. $\frac{3}{5} \div \frac{7}{8} =$

6. $\frac{3}{16} \div \frac{3}{8} =$

7. $\frac{4}{9} \div \frac{3}{4} =$

8. $\frac{7}{8} \div \frac{2}{3} =$

9. $\frac{1}{6} \div \frac{4}{5} =$

10. $\frac{3}{4} \div \frac{3}{5} =$

11. $\frac{7}{9} \div \frac{2}{3} =$

12. $\frac{7}{8} \div \frac{5}{11} =$

13. $\frac{2}{5} \div \frac{3}{8} =$

14. $\frac{2}{3} \div \frac{4}{5} =$

15. $\frac{5}{9} \div \frac{2}{8} =$

Name _____

Date _____

Dividing Fractions and Whole NumbersTotal Problems: **15**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $8 \div \frac{6}{7} =$

2. $3 \div \frac{1}{2} =$

3. $12 \div \frac{3}{4} =$

4. $14 \div \frac{7}{8} =$

5. $5 \div \frac{1}{3} =$

6. $\frac{5}{6} \div 10 =$

7. $\frac{2}{3} \div 6 =$

8. $\frac{3}{4} \div 4 =$

9. $\frac{1}{2} \div 6 =$

10. $\frac{1}{4} \div 2 =$

11. $\frac{2}{5} \div 3 =$

12. $10 \div \frac{6}{7} =$

13. $\frac{4}{7} \div 5 =$

14. $6 \div \frac{1}{5} =$

15. $12 \div \frac{3}{9} =$

Name _____

Date _____

Dividing Fractions and Mixed NumbersTotal Problems: **12**

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $1\frac{1}{6} \div \frac{1}{4} =$

2. $3\frac{1}{4} \div \frac{3}{8} =$

3. $5\frac{2}{3} \div \frac{9}{10} =$

4. $1\frac{4}{5} \div \frac{2}{7} =$

5. $2\frac{3}{4} \div \frac{1}{8} =$

6. $2\frac{1}{2} \div \frac{1}{2} =$

7. $2\frac{1}{4} \div \frac{3}{8} =$

8. $4\frac{1}{2} \div \frac{1}{2} =$

9. $6\frac{1}{8} \div \frac{4}{7} =$

10. $2\frac{3}{4} \div \frac{1}{2} =$

11. $1\frac{1}{4} \div \frac{2}{3} =$

12. $1\frac{2}{5} \div \frac{1}{3} =$

Name _____

Date _____

Multiplying and Dividing Fractions Review

Total Problems: 12
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $3\frac{1}{3} \div 1\frac{1}{2} =$

2. $5\frac{1}{2} \div 1\frac{1}{4} =$

3. $2\frac{1}{6} \times 1\frac{1}{12} =$

4. $2\frac{3}{6} \times 4\frac{5}{10} =$

5. $2\frac{3}{5} \div 2\frac{1}{5} =$

6. $2\frac{1}{4} \times 1\frac{1}{4} =$

7. $3\frac{2}{4} \div 1\frac{1}{5} =$

8. $2\frac{2}{8} \times 4\frac{5}{16} =$

9. $3\frac{1}{2} \times 3\frac{1}{2} =$

10. $4\frac{1}{6} \div 1\frac{1}{6} =$

11. $2\frac{3}{5} \div 1\frac{2}{5} =$

12. $3\frac{3}{5} \times 3\frac{3}{5} =$

Name _____

Date _____

Understanding Decimals**Total Problems: 11**
Problems Correct: _____

Complete the chart. Fill in the whole number, tenths, hundredths, and thousandths columns with the correct number. Use zeros as placeholders where necessary.

	Number	Whole Number	Tenths	Hundredths	Thousandths
1.	3.751				
2.	4.891				
3.	1.608				
4.	10.540				
5.	9.618				
6.	2.198				
7.	0.208				
8.	0.005				
9.	1.7				
10.	2.398				
11.	6.0				

Name _____ Date _____

Understanding Decimals

Total Problems: 16
Problems Correct: _____

Write a decimal for each of the following descriptions.

1. One tenth _____
2. Twenty-seven hundredths _____
3. Three thousandths _____
4. Seven tenths _____
5. Forty-five hundredths _____
6. Fifty-one thousandths _____

Write each decimal in words.

7. 0.047 _____
8. 0.99 _____
9. 0.8 _____
10. 0.809 _____
11. 0.06 _____

Order the numbers in each series from smallest to largest.

12. 1.871, 0.1871, 10.871 _____
13. 0.045, 0.45, 0.04 _____
14. 0.0065, 0.06, 0.006 _____
15. 0.91, 0.44, 0.23 _____
16. 6.07, 6.17, 6.37 _____

Name _____

Date _____

Writing Decimals as FractionsTotal Problems: **16**

Problems Correct: _____

Write each decimal as a fraction. Write the answer in simplest form.

1. $0.625 =$

2. $0.008 =$

3. $0.60 =$

4. $0.23 =$

5. $0.020 =$

6. $0.054 =$

7. $0.075 =$

8. $0.001 =$

9. $0.100 =$

10. $0.012 =$

11. $0.033 =$

12. $0.12 =$

13. $0.03 =$

14. $0.219 =$

15. $0.575 =$

16. $0.35 =$

Name _____

Date _____

Writing Decimals as FractionsTotal Problems: **16**

Problems Correct: _____

Write each decimal as a fraction. Write the answer in simplest form.

1. $0.5 =$

2. $0.05 =$

3. $0.075 =$

4. $0.12 =$

5. $0.333 =$

6. $0.25 =$

7. $0.15 =$

8. $0.54 =$

9. $0.1 =$

10. $0.08 =$

11. $0.125 =$

12. $0.2 =$

13. $0.8 =$

14. $0.143 =$

15. $0.625 =$

16. $0.025 =$

Name _____

Date _____

Writing Fractions as Decimals

Total Problems:	12
Problems Correct:	_____

Write each fraction or mixed number as a decimal.

1. $\frac{6}{10} =$

2. $\frac{3}{10} =$

3. $3\frac{8}{10} =$

4. $4\frac{15}{1,000} =$

5. $\frac{7}{100} =$

6. $\frac{4}{100} =$

7. $2\frac{9}{10} =$

8. $\frac{8}{1,000} =$

9. $\frac{27}{100} =$

10. $\frac{50}{100} =$

11. $\frac{142}{1,000} =$

12. $\frac{7}{100} =$

Name _____

Date _____

Writing Fractions as DecimalsTotal Problems: **16**

Problems Correct: _____

Write each fraction or mixed number as a decimal. Round to the nearest thousandth when necessary.

1. $5\frac{7}{8} =$

2. $\frac{47}{50} =$

3. $\frac{1}{2} =$

4. $\frac{9}{200} =$

5. $3\frac{4}{5} =$

6. $\frac{3}{8} =$

7. $\frac{1}{5} =$

8. $\frac{7}{25} =$

9. $4\frac{3}{5} =$

10. $\frac{3}{4} =$

11. $\frac{1}{4} =$

12. $\frac{7}{20} =$

13. $2\frac{1}{5} =$

14. $\frac{1}{8} =$

15. $\frac{1}{3} =$

16. $\frac{4}{5} =$

Name _____

Date _____

Adding DecimalsTotal Problems: **16**

Problems Correct: _____

Solve each problem.

$$\begin{array}{r} 1. \quad 2.34 \\ \quad 0.02 \\ + 1.65 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 543.7 \\ \quad \quad 3.42 \\ + \quad 0.06 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 72.56 \\ \quad 12.38 \\ + \quad 0.07 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 22.87 \\ \quad 45.7 \\ + \quad 1.26 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 987.5 \\ \quad \quad 4.1 \\ + 30.2 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 2.14 \\ \quad 0.007 \\ + 72.4 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 1.70 \\ \quad 23.75 \\ + 0.605 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 86.15 \\ \quad \quad 0.07 \\ + 5.72 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 5.1 \\ \quad 7.53 \\ + 87.4 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 0.2 \\ \quad 1.2 \\ + 0.12 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 1.45 \\ \quad 20.03 \\ + 0.17 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 4.5 \\ \quad 5.4 \\ + 12.67 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 42.7 \\ \quad 0.03 \\ + 1.7 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 87.5 \\ \quad 1.2 \\ + 591.35 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 0.725 \\ \quad 1.33 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 42 \\ \quad 0.543 \\ + 7.8 \\ \hline \end{array}$$

Name _____

Date _____

Subtracting Decimals

Total Problems: 20
Problems Correct: _____

Solve each problem.

1.
$$\begin{array}{r} 0.8 \\ - 0.4 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 0.47 \\ - 0.21 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 0.753 \\ - 0.211 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 4.6 \\ - 2.1 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 42.53 \\ - 0.25 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 0.9 \\ - 0.5 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 0.53 \\ - 0.27 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 0.867 \\ - 0.501 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 5.6 \\ - 0.2 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 87.54 \\ - 6.25 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 0.3 \\ - 0.1 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 0.37 \\ - 0.15 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 0.467 \\ - 0.338 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 37.6 \\ - 0.7 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 95.43 \\ - 16.07 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 0.5 \\ - 0.2 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 0.42 \\ - 0.12 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 0.575 \\ - 0.104 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 25.06 \\ - 3.72 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 53.27 \\ - 5.42 \\ \hline \end{array}$$

Name: _____

Date: _____

Lesson 9.2 Multiplying by Tens, Hundreds, and Thousands

Multiply.

1. $4.85 \times 10 = \underline{\hspace{2cm}}$

2. $0.375 \times 10 = \underline{\hspace{2cm}}$

3. $4.928 \times 100 = \underline{\hspace{2cm}}$

4. $0.23 \times 1,000 = \underline{\hspace{2cm}}$

Complete.

5. $7.45 \times \underline{\hspace{2cm}} = 74.5$

6. $\underline{\hspace{2cm}} \times 10 = 662.2$

7. $0.809 \times \underline{\hspace{2cm}} = 80.9$

8. $\underline{\hspace{2cm}} \times 100 = 403$

9. $5.7 \times \underline{\hspace{2cm}} = 5,700$

10. $\underline{\hspace{2cm}} \times 1,000 = 108$

Complete.

11. $513 = 51.3 \times \underline{\hspace{2cm}}$

12. $4,016 = \underline{\hspace{2cm}} \times 10$

$= 5.13 \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} \times 100$

$= 0.513 \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} \times 1,000$

Complete.

13. $0.954 \times 60 = (0.954 \times \underline{\hspace{2cm}}) \times 10$

$= \underline{\hspace{2cm}} \times 10$

$= \underline{\hspace{2cm}}$

14. $0.376 \times 800 = (0.376 \times \underline{\hspace{2cm}}) \times 100$

$= \underline{\hspace{2cm}} \times 100$

$= \underline{\hspace{2cm}}$

Name: _____

Date: _____

Multiply.

6.
$$\begin{array}{r} 0.6 \\ \times 8 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 3.5 \\ \times 7 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 3.9 \\ \times 9 \\ \hline \end{array}$$

9. $3 \times 8.7 = \underline{\hspace{2cm}}$

10. $4 \times 6.9 = \underline{\hspace{2cm}}$

11. $5 \times 7.4 = \underline{\hspace{2cm}}$

12. $8 \times 9.2 = \underline{\hspace{2cm}}$

13.
$$\begin{array}{r} 0.07 \\ \times 6 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 0.09 \\ \times 7 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 5.36 \\ \times 8 \\ \hline \end{array}$$

16. $4 \times 7.04 = \underline{\hspace{2cm}}$

17. $5 \times 4.58 = \underline{\hspace{2cm}}$

18. $6 \times 5.64 = \underline{\hspace{2cm}}$

19. $9 \times 8.36 = \underline{\hspace{2cm}}$

Name: _____

Date: _____

Complete.

17. $298 \div 20 = (298 \div \underline{\hspace{2cm}}) \div 10$

$= \underline{\hspace{2cm}} \div 10$

$= \underline{\hspace{2cm}}$

18. $32 \div 800 = (32 \div \underline{\hspace{2cm}}) \div 100$

$= \underline{\hspace{2cm}} \div 100$

$= \underline{\hspace{2cm}}$

19. $1,200 \div 6,000 = (1,200 \div \underline{\hspace{2cm}}) \div 1,000$

$= \underline{\hspace{2cm}} \div 1,000$

$= \underline{\hspace{2cm}}$

Divide.

20. $450 \div 60 = \underline{\hspace{2cm}}$

21. $64.8 \div 80 = \underline{\hspace{2cm}}$

22. $36.8 \div 400 = \underline{\hspace{2cm}}$

23. $576 \div 900 = \underline{\hspace{2cm}}$

24. $1,050 \div 3,000 = \underline{\hspace{2cm}}$

25. $8,320 \div 4,000 = \underline{\hspace{2cm}}$

Name: _____

Date: _____

Lesson 9.4 Dividing by Tens, Hundreds, and Thousands

Divide.

1. $2.36 \div 10 = \underline{\hspace{2cm}}$

2. $30.15 \div 10 = \underline{\hspace{2cm}}$

3. $508.2 \div 100 = \underline{\hspace{2cm}}$

4. $210 \div 100 = \underline{\hspace{2cm}}$

5. $780 \div 1,000 = \underline{\hspace{2cm}}$

6. $82,300 \div 1,000 = \underline{\hspace{2cm}}$

Complete.

7. $2.87 \div \underline{\hspace{2cm}} = 0.287$

8. $\underline{\hspace{2cm}} \div 10 = 34.5$

9. $319 \div \underline{\hspace{2cm}} = 3.19$

10. $\underline{\hspace{2cm}} \div 100 = 69.2$

11. $5,460 \div \underline{\hspace{2cm}} = 5.46$

12. $\underline{\hspace{2cm}} \div 1,000 = 48$

Complete.

13. $19.9 = 199 \div \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} \div 100$

$= \underline{\hspace{2cm}} \div 1,000$

14. $8.235 = \underline{\hspace{2cm}} \div 10$

$= 823.5 \div \underline{\hspace{2cm}}$

$= 8,235 \div \underline{\hspace{2cm}}$

15. $4.01 = \underline{\hspace{2cm}} \div 10$

$= \underline{\hspace{2cm}} \div 100$

$= \underline{\hspace{2cm}} \div 1,000$

16. $67.67 = 676.7 \div \underline{\hspace{2cm}}$

$= 6,767 \div \underline{\hspace{2cm}}$

$= 67,670 \div \underline{\hspace{2cm}}$

Name: _____

Date: _____

Divide.

6. $4 \overline{)9.2}$

7. $5 \overline{)18.5}$

8. $8 \overline{)25.6}$

9. $9 \overline{)0.54}$

10. $3 \overline{)33.99}$

11. $7 \overline{)41.16}$

Divide.

Round each quotient to the nearest tenth.

12. $3.15 \div 4$

13. $4.17 \div 6$

Divide.

Round each quotient to the nearest hundredth.

14. $7.78 \div 3$

15. $14.59 \div 7$

Name: _____

Date: _____

Lesson 9.2 Multiplying by Tens, Hundreds, and Thousands

Multiply.

1. $4.85 \times 10 = \underline{\hspace{2cm}}$

2. $0.375 \times 10 = \underline{\hspace{2cm}}$

3. $4.928 \times 100 = \underline{\hspace{2cm}}$

4. $0.23 \times 1,000 = \underline{\hspace{2cm}}$

Complete.

5. $7.45 \times \underline{\hspace{2cm}} = 74.5$

6. $\underline{\hspace{2cm}} \times 10 = 662.2$

7. $0.809 \times \underline{\hspace{2cm}} = 80.9$

8. $\underline{\hspace{2cm}} \times 100 = 403$

9. $5.7 \times \underline{\hspace{2cm}} = 5,700$

10. $\underline{\hspace{2cm}} \times 1,000 = 108$

Complete.

11. $513 = 51.3 \times \underline{\hspace{2cm}}$

12. $4,016 = \underline{\hspace{2cm}} \times 10$

$= 5.13 \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} \times 100$

$= 0.513 \times \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}} \times 1,000$

Complete.

13. $0.954 \times 60 = (0.954 \times \underline{\hspace{2cm}}) \times 10$

$= \underline{\hspace{2cm}} \times 10$

$= \underline{\hspace{2cm}}$

14. $0.376 \times 800 = (0.376 \times \underline{\hspace{2cm}}) \times 100$

$= \underline{\hspace{2cm}} \times 100$

$= \underline{\hspace{2cm}}$

Answer Key

Name _____ Date _____

Adding Multi-Digit Numbers

Solve each problem. Regroup when necessary.

Total Problems: 24
Problems Correct: _____

- | | | | | | |
|---|--|---|--|---|--|
| 1. $\begin{array}{r} 56 \\ + 32 \\ \hline 88 \end{array}$ | 2. $\begin{array}{r} 125 \\ + 832 \\ \hline 957 \end{array}$ | 3. $\begin{array}{r} 4,287 \\ + 907 \\ \hline 5,194 \end{array}$ | 4. $\begin{array}{r} 2,703 \\ + 9,006 \\ \hline 11,709 \end{array}$ | 5. $\begin{array}{r} 21,027 \\ + 68,509 \\ \hline 89,536 \end{array}$ | 6. $\begin{array}{r} 17 \\ + 81 \\ \hline 98 \end{array}$ |
| 7. $\begin{array}{r} 687 \\ + 407 \\ \hline 1,094 \end{array}$ | 8. $\begin{array}{r} 1,287 \\ + 406 \\ \hline 1,693 \end{array}$ | 9. $\begin{array}{r} 1,551 \\ + 3,287 \\ \hline 4,838 \end{array}$ | 10. $\begin{array}{r} 32,578 \\ + 10,781 \\ \hline 43,359 \end{array}$ | 11. $\begin{array}{r} 95 \\ + 59 \\ \hline 154 \end{array}$ | 12. $\begin{array}{r} 531 \\ + 450 \\ \hline 981 \end{array}$ |
| 13. $\begin{array}{r} 3,572 \\ + 261 \\ \hline 3,833 \end{array}$ | 14. $\begin{array}{r} 4,692 \\ + 7,841 \\ \hline 12,533 \end{array}$ | 15. $\begin{array}{r} 54,392 \\ + 62,158 \\ \hline 116,550 \end{array}$ | 16. $\begin{array}{r} 27 \\ + 42 \\ \hline 69 \end{array}$ | 17. $\begin{array}{r} 501 \\ + 225 \\ \hline 726 \end{array}$ | 18. $\begin{array}{r} 5,983 \\ + 742 \\ \hline 6,725 \end{array}$ |
| 19. $\begin{array}{r} 6,031 \\ + 3,275 \\ \hline 9,306 \end{array}$ | 20. $\begin{array}{r} 35 \\ + 80 \\ \hline 115 \end{array}$ | 21. $\begin{array}{r} 387 \\ + 122 \\ \hline 509 \end{array}$ | 22. $\begin{array}{r} 6,401 \\ + 578 \\ \hline 6,979 \end{array}$ | 23. $\begin{array}{r} 8,762 \\ + 5,137 \\ \hline 13,899 \end{array}$ | 24. $\begin{array}{r} 40,226 \\ + 37,822 \\ \hline 78,048 \end{array}$ |

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Name _____ Date _____

Multi-Digit Column Addition

Solve each problem. Regroup when necessary.

Total Problems: 20
Problems Correct: _____

- | | | | | |
|--|---|--|---|---|
| 1. $\begin{array}{r} 234 \\ 862 \\ + 335 \\ \hline 1,431 \end{array}$ | 2. $\begin{array}{r} 1,767 \\ 8,403 \\ + 2,759 \\ \hline 12,929 \end{array}$ | 3. $\begin{array}{r} 50,251 \\ 339 \\ + 42 \\ \hline 50,632 \end{array}$ | 4. $\begin{array}{r} 67,107 \\ 53,001 \\ 42,902 \\ + 107 \\ \hline 163,117 \end{array}$ | 5. $\begin{array}{r} 187 \\ 384 \\ + 416 \\ \hline 987 \end{array}$ |
| 6. $\begin{array}{r} 5,570 \\ 4,867 \\ + 3,210 \\ \hline 13,647 \end{array}$ | 7. $\begin{array}{r} 69,721 \\ 4,065 \\ + 13 \\ \hline 73,799 \end{array}$ | 8. $\begin{array}{r} 5,545 \\ 632 \\ + 19 \\ \hline 6,241 \end{array}$ | 9. $\begin{array}{r} 486 \\ 582 \\ + 23 \\ \hline 1,091 \end{array}$ | 10. $\begin{array}{r} 1,257 \\ 4,380 \\ + 9,621 \\ \hline 15,258 \end{array}$ |
| 11. $\begin{array}{r} 8,609 \\ 786 \\ + 52 \\ \hline 9,447 \end{array}$ | 12. $\begin{array}{r} 7,840 \\ 2,129 \\ 616 \\ + 53 \\ \hline 10,638 \end{array}$ | 13. $\begin{array}{r} 875 \\ 934 \\ + 17 \\ \hline 1,826 \end{array}$ | 14. $\begin{array}{r} 6,357 \\ 1,876 \\ + 5,072 \\ \hline 13,305 \end{array}$ | 15. $\begin{array}{r} 52,103 \\ 47,339 \\ + 857 \\ \hline 100,299 \end{array}$ |
| 16. $\begin{array}{r} 2,531 \\ 682 \\ 550 \\ + 49 \\ \hline 3,812 \end{array}$ | 17. $\begin{array}{r} 416 \\ 502 \\ + 22 \\ \hline 940 \end{array}$ | 18. $\begin{array}{r} 1,275 \\ 2,654 \\ + 3,023 \\ \hline 6,952 \end{array}$ | 19. $\begin{array}{r} 78,695 \\ 4,072 \\ + 3,210 \\ \hline 85,977 \end{array}$ | 20. $\begin{array}{r} 8,749 \\ 7,263 \\ 521 \\ + 84 \\ \hline 16,617 \end{array}$ |

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Name _____ Date _____

Multi-Digit Column Addition

Solve each problem. Regroup when necessary.

Total Problems: 15
Problems Correct: _____

- | | | | | |
|---|---|--|--|---|
| 1. $\begin{array}{r} 421 \\ 857 \\ 63 \\ 54 \\ + 7 \\ \hline 1,402 \end{array}$ | 2. $\begin{array}{r} 52,105 \\ 43,785 \\ 6,112 \\ 3,953 \\ + 4,182 \\ \hline 110,137 \end{array}$ | 3. $\begin{array}{r} 87,152 \\ 5,847 \\ 1,376 \\ 209 \\ 440 \\ + 328 \\ \hline 95,352 \end{array}$ | 4. $\begin{array}{r} 5,321 \\ 876 \\ 524 \\ 100 \\ + 76 \\ \hline 6,897 \end{array}$ | 5. $\begin{array}{r} 78,104 \\ 18,905 \\ 5,629 \\ 3,247 \\ + 432 \\ \hline 106,317 \end{array}$ |
| 6. $\begin{array}{r} 33,201 \\ 5,784 \\ 7,206 \\ 628 \\ 552 \\ + 16 \\ \hline 47,387 \end{array}$ | 7. $\begin{array}{r} 1,019 \\ 593 \\ 422 \\ 42 \\ + 59 \\ \hline 2,135 \end{array}$ | 8. $\begin{array}{r} 27,862 \\ 50,311 \\ 62,109 \\ 5,450 \\ + 6,219 \\ \hline 151,951 \end{array}$ | 9. $\begin{array}{r} 68,431 \\ 55,095 \\ 18,702 \\ 457 \\ 212 \\ + 12 \\ \hline 142,909 \end{array}$ | 10. $\begin{array}{r} 8,763 \\ 257 \\ 812 \\ 404 \\ + 95 \\ \hline 10,331 \end{array}$ |
| 11. $\begin{array}{r} 18,782 \\ 3,755 \\ 2,262 \\ 187 \\ + 555 \\ \hline 25,541 \end{array}$ | 12. $\begin{array}{r} 70,152 \\ 39,157 \\ 70,062 \\ 345 \\ 228 \\ + 12 \\ \hline 179,956 \end{array}$ | 13. $\begin{array}{r} 52,106 \\ 43,785 \\ 6,112 \\ 3,953 \\ + 4,182 \\ \hline 110,138 \end{array}$ | 14. $\begin{array}{r} 6,501 \\ 430 \\ 822 \\ 95 \\ + 42 \\ \hline 7,890 \end{array}$ | 15. $\begin{array}{r} 83,164 \\ 22,900 \\ 18,442 \\ 4,963 \\ 527 \\ + 89 \\ \hline 130,085 \end{array}$ |

6

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Name _____ Date _____

Subtracting One- and Two-Digit Numbers

Solve each problem. Regroup when necessary.

Total Problems: 24
Problems Correct: _____

- | | | | | | |
|--|--|---|--|--|--|
| 1. $\begin{array}{r} 78 \\ - 6 \\ \hline 72 \end{array}$ | 2. $\begin{array}{r} 25 \\ - 7 \\ \hline 18 \end{array}$ | 3. $\begin{array}{r} 21 \\ - 5 \\ \hline 16 \end{array}$ | 4. $\begin{array}{r} 54 \\ - 45 \\ \hline 9 \end{array}$ | 5. $\begin{array}{r} 17 \\ - 16 \\ \hline 1 \end{array}$ | 6. $\begin{array}{r} 56 \\ - 4 \\ \hline 52 \end{array}$ |
| 7. $\begin{array}{r} 22 \\ - 8 \\ \hline 14 \end{array}$ | 8. $\begin{array}{r} 19 \\ - 6 \\ \hline 13 \end{array}$ | 9. $\begin{array}{r} 62 \\ - 27 \\ \hline 35 \end{array}$ | 10. $\begin{array}{r} 95 \\ - 67 \\ \hline 28 \end{array}$ | 11. $\begin{array}{r} 60 \\ - 10 \\ \hline 50 \end{array}$ | 12. $\begin{array}{r} 68 \\ - 9 \\ \hline 59 \end{array}$ |
| 13. $\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$ | 14. $\begin{array}{r} 85 \\ - 67 \\ \hline 18 \end{array}$ | 15. $\begin{array}{r} 62 \\ - 56 \\ \hline 6 \end{array}$ | 16. $\begin{array}{r} 32 \\ - 9 \\ \hline 23 \end{array}$ | 17. $\begin{array}{r} 70 \\ - 6 \\ \hline 64 \end{array}$ | 18. $\begin{array}{r} 71 \\ - 4 \\ \hline 67 \end{array}$ |
| 19. $\begin{array}{r} 92 \\ - 18 \\ \hline 74 \end{array}$ | 20. $\begin{array}{r} 38 \\ - 27 \\ \hline 11 \end{array}$ | 21. $\begin{array}{r} 48 \\ - 8 \\ \hline 40 \end{array}$ | 22. $\begin{array}{r} 84 \\ - 7 \\ \hline 77 \end{array}$ | 23. $\begin{array}{r} 34 \\ - 6 \\ \hline 28 \end{array}$ | 24. $\begin{array}{r} 29 \\ - 17 \\ \hline 12 \end{array}$ |

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7

Answer Key

Name _____ Date _____

Subtracting Two- and Three-Digit Numbers

Total Problems: 24
Problems Correct: _____

Solve each problem. Regroup when necessary.

- | | | | | | |
|---|---|--|---|--|---|
| 1. $\begin{array}{r} 286 \\ - 57 \\ \hline 229 \end{array}$ | 2. $\begin{array}{r} 991 \\ - 85 \\ \hline 906 \end{array}$ | 3. $\begin{array}{r} 875 \\ - 407 \\ \hline 468 \end{array}$ | 4. $\begin{array}{r} 497 \\ - 322 \\ \hline 175 \end{array}$ | 5. $\begin{array}{r} 603 \\ - 571 \\ \hline 32 \end{array}$ | 6. $\begin{array}{r} 382 \\ - 96 \\ \hline 286 \end{array}$ |
| 7. $\begin{array}{r} 997 \\ - 61 \\ \hline 936 \end{array}$ | 8. $\begin{array}{r} 962 \\ - 509 \\ \hline 453 \end{array}$ | 9. $\begin{array}{r} 625 \\ - 592 \\ \hline 33 \end{array}$ | 10. $\begin{array}{r} 827 \\ - 694 \\ \hline 133 \end{array}$ | 11. $\begin{array}{r} 186 \\ - 52 \\ \hline 134 \end{array}$ | 12. $\begin{array}{r} 863 \\ - 54 \\ \hline 809 \end{array}$ |
| 13. $\begin{array}{r} 875 \\ - 445 \\ \hline 430 \end{array}$ | 14. $\begin{array}{r} 940 \\ - 185 \\ \hline 755 \end{array}$ | 15. $\begin{array}{r} 307 \\ - 283 \\ \hline 24 \end{array}$ | 16. $\begin{array}{r} 525 \\ - 63 \\ \hline 462 \end{array}$ | 17. $\begin{array}{r} 415 \\ - 78 \\ \hline 337 \end{array}$ | 18. $\begin{array}{r} 786 \\ - 616 \\ \hline 170 \end{array}$ |
| 19. $\begin{array}{r} 876 \\ - 652 \\ \hline 224 \end{array}$ | 20. $\begin{array}{r} 125 \\ - 116 \\ \hline 9 \end{array}$ | 21. $\begin{array}{r} 400 \\ - 88 \\ \hline 312 \end{array}$ | 22. $\begin{array}{r} 321 \\ - 39 \\ \hline 282 \end{array}$ | 23. $\begin{array}{r} 521 \\ - 431 \\ \hline 90 \end{array}$ | 24. $\begin{array}{r} 785 \\ - 504 \\ \hline 281 \end{array}$ |

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Name _____ Date _____

Subtracting Multi-Digit Numbers

Total Problems: 25
Problems Correct: _____

Solve each problem. Regroup when necessary.

- | | | | | |
|---|---|---|---|--|
| 1. $\begin{array}{r} 8,907 \\ - 52 \\ \hline 8,855 \end{array}$ | 2. $\begin{array}{r} 4,301 \\ - 225 \\ \hline 4,076 \end{array}$ | 3. $\begin{array}{r} 22,107 \\ - 3,988 \\ \hline 18,119 \end{array}$ | 4. $\begin{array}{r} 86,946 \\ - 71,807 \\ \hline 15,139 \end{array}$ | 5. $\begin{array}{r} 302,175 \\ - 68,189 \\ \hline 233,986 \end{array}$ |
| 6. $\begin{array}{r} 6,217 \\ - 25 \\ \hline 6,192 \end{array}$ | 7. $\begin{array}{r} 5,681 \\ - 309 \\ \hline 5,372 \end{array}$ | 8. $\begin{array}{r} 31,257 \\ - 4,071 \\ \hline 27,186 \end{array}$ | 9. $\begin{array}{r} 47,810 \\ - 22,516 \\ \hline 25,294 \end{array}$ | 10. $\begin{array}{r} 496,502 \\ - 10,498 \\ \hline 486,004 \end{array}$ |
| 11. $\begin{array}{r} 8,357 \\ - 78 \\ \hline 8,279 \end{array}$ | 12. $\begin{array}{r} 7,662 \\ - 447 \\ \hline 7,215 \end{array}$ | 13. $\begin{array}{r} 46,689 \\ - 5,672 \\ \hline 41,017 \end{array}$ | 14. $\begin{array}{r} 25,300 \\ - 18,704 \\ \hline 6,596 \end{array}$ | 15. $\begin{array}{r} 187,645 \\ - 53,217 \\ \hline 134,428 \end{array}$ |
| 16. $\begin{array}{r} 1,358 \\ - 32 \\ \hline 1,326 \end{array}$ | 17. $\begin{array}{r} 5,432 \\ - 151 \\ \hline 5,281 \end{array}$ | 18. $\begin{array}{r} 76,571 \\ - 6,229 \\ \hline 70,342 \end{array}$ | 19. $\begin{array}{r} 6,219 \\ - 52 \\ \hline 6,167 \end{array}$ | 20. $\begin{array}{r} 8,719 \\ - 582 \\ \hline 8,137 \end{array}$ |
| 21. $\begin{array}{r} 52,398 \\ - 1,028 \\ \hline 51,370 \end{array}$ | 22. $\begin{array}{r} 86,107 \\ - 83,279 \\ \hline 2,828 \end{array}$ | 23. $\begin{array}{r} 36,875 \\ - 31,787 \\ \hline 5,088 \end{array}$ | 24. $\begin{array}{r} 63,128 \\ - 57,281 \\ \hline 5,847 \end{array}$ | 25. $\begin{array}{r} 94,422 \\ - 5,349 \\ \hline 89,073 \end{array}$ |

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9

Name _____ Date _____

Multiplying One- and Two-Digit Numbers

Total Problems: 30
Problems Correct: _____

Solve each problem. Regroup when necessary.

- | | | | | | |
|--|--|--|--|--|--|
| 1. $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$ | 2. $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$ | 3. $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$ | 4. $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$ | 5. $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$ | 6. $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$ |
| 7. $\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$ | 8. $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$ | 9. $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ | 10. $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$ | 11. $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$ | 12. $\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$ |
| 13. $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$ | 14. $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | 15. $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$ | 16. $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$ | 17. $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | 18. $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$ |
| 19. $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | 20. $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$ | 21. $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | 22. $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | 23. $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | 24. $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$ |
| 25. $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$ | 26. $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$ | 27. $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$ | 28. $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ | 29. $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$ | 30. $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$ |

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Name _____ Date _____

Multiplying Two-Digit Numbers

Total Problems: 20
Problems Correct: _____

Solve each problem. Regroup when necessary.

- | | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 27 \\ \times 13 \\ \hline 351 \end{array}$ | 2. $\begin{array}{r} 15 \\ \times 47 \\ \hline 705 \end{array}$ | 3. $\begin{array}{r} 84 \\ \times 19 \\ \hline 1,596 \end{array}$ | 4. $\begin{array}{r} 58 \\ \times 61 \\ \hline 3,538 \end{array}$ | 5. $\begin{array}{r} 45 \\ \times 62 \\ \hline 2,790 \end{array}$ |
| 6. $\begin{array}{r} 87 \\ \times 93 \\ \hline 8,091 \end{array}$ | 7. $\begin{array}{r} 22 \\ \times 38 \\ \hline 836 \end{array}$ | 8. $\begin{array}{r} 82 \\ \times 27 \\ \hline 2,214 \end{array}$ | 9. $\begin{array}{r} 33 \\ \times 51 \\ \hline 1,683 \end{array}$ | 10. $\begin{array}{r} 46 \\ \times 41 \\ \hline 1,886 \end{array}$ |
| 11. $\begin{array}{r} 47 \\ \times 25 \\ \hline 1,175 \end{array}$ | 12. $\begin{array}{r} 24 \\ \times 43 \\ \hline 1,032 \end{array}$ | 13. $\begin{array}{r} 42 \\ \times 51 \\ \hline 2,142 \end{array}$ | 14. $\begin{array}{r} 87 \\ \times 65 \\ \hline 5,655 \end{array}$ | 15. $\begin{array}{r} 48 \\ \times 62 \\ \hline 2,976 \end{array}$ |
| 16. $\begin{array}{r} 68 \\ \times 59 \\ \hline 4,012 \end{array}$ | 17. $\begin{array}{r} 65 \\ \times 92 \\ \hline 5,980 \end{array}$ | 18. $\begin{array}{r} 23 \\ \times 50 \\ \hline 1,150 \end{array}$ | 19. $\begin{array}{r} 83 \\ \times 60 \\ \hline 4,980 \end{array}$ | 20. $\begin{array}{r} 72 \\ \times 57 \\ \hline 4,104 \end{array}$ |

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Answer Key

Name _____ Date _____

Multiplying Multi-Digit Numbers

Solve each problem. Regroup when necessary.

Total Problems: 24
Problems Correct: _____

$$\begin{array}{r} 1. \quad 87 \\ \times 5 \\ \hline 435 \end{array}$$

$$\begin{array}{r} 2. \quad 72 \\ \times 18 \\ \hline 1,296 \end{array}$$

$$\begin{array}{r} 3. \quad 425 \\ \times 15 \\ \hline 6,375 \end{array}$$

$$\begin{array}{r} 4. \quad 303 \\ \times 83 \\ \hline 25,149 \end{array}$$

$$\begin{array}{r} 5. \quad 187 \\ \times 26 \\ \hline 4,862 \end{array}$$

$$\begin{array}{r} 6. \quad 93 \\ \times 6 \\ \hline 558 \end{array}$$

$$\begin{array}{r} 7. \quad 63 \\ \times 25 \\ \hline 1,575 \end{array}$$

$$\begin{array}{r} 8. \quad 313 \\ \times 72 \\ \hline 22,536 \end{array}$$

$$\begin{array}{r} 9. \quad 442 \\ \times 81 \\ \hline 35,802 \end{array}$$

$$\begin{array}{r} 10. \quad 593 \\ \times 45 \\ \hline 26,685 \end{array}$$

$$\begin{array}{r} 11. \quad 84 \\ \times 3 \\ \hline 252 \end{array}$$

$$\begin{array}{r} 12. \quad 42 \\ \times 28 \\ \hline 1,176 \end{array}$$

$$\begin{array}{r} 13. \quad 81 \\ \times 53 \\ \hline 4,293 \end{array}$$

$$\begin{array}{r} 14. \quad 872 \\ \times 20 \\ \hline 17,440 \end{array}$$

$$\begin{array}{r} 15. \quad 351 \\ \times 67 \\ \hline 23,517 \end{array}$$

$$\begin{array}{r} 16. \quad 52 \\ \times 4 \\ \hline 208 \end{array}$$

$$\begin{array}{r} 17. \quad 75 \\ \times 21 \\ \hline 1,575 \end{array}$$

$$\begin{array}{r} 18. \quad 21 \\ \times 10 \\ \hline 210 \end{array}$$

$$\begin{array}{r} 19. \quad 214 \\ \times 87 \\ \hline 18,618 \end{array}$$

$$\begin{array}{r} 20. \quad 109 \\ \times 15 \\ \hline 1,635 \end{array}$$

$$\begin{array}{r} 21. \quad 12 \\ \times 9 \\ \hline 108 \end{array}$$

$$\begin{array}{r} 22. \quad 16 \\ \times 8 \\ \hline 128 \end{array}$$

$$\begin{array}{r} 23. \quad 87 \\ \times 26 \\ \hline 2,262 \end{array}$$

$$\begin{array}{r} 24. \quad 99 \\ \times 21 \\ \hline 2,079 \end{array}$$

12

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Name _____ Date _____

Multiplying Multi-Digit Numbers

Solve each problem. Regroup when necessary.

Total Problems: 20
Problems Correct: _____

$$\begin{array}{r} 1. \quad 918 \\ \times 55 \\ \hline 50,490 \end{array}$$

$$\begin{array}{r} 2. \quad 755 \\ \times 221 \\ \hline 166,855 \end{array}$$

$$\begin{array}{r} 3. \quad 618 \\ \times 500 \\ \hline 309,000 \end{array}$$

$$\begin{array}{r} 4. \quad 1,242 \\ \times 687 \\ \hline 853,254 \end{array}$$

$$\begin{array}{r} 5. \quad 437 \\ \times 22 \\ \hline 9,614 \end{array}$$

$$\begin{array}{r} 6. \quad 832 \\ \times 106 \\ \hline 88,192 \end{array}$$

$$\begin{array}{r} 7. \quad 391 \\ \times 125 \\ \hline 48,875 \end{array}$$

$$\begin{array}{r} 8. \quad 3,861 \\ \times 392 \\ \hline 1,513,512 \end{array}$$

$$\begin{array}{r} 9. \quad 518 \\ \times 42 \\ \hline 21,756 \end{array}$$

$$\begin{array}{r} 10. \quad 391 \\ \times 535 \\ \hline 209,185 \end{array}$$

$$\begin{array}{r} 11. \quad 482 \\ \times 663 \\ \hline 319,566 \end{array}$$

$$\begin{array}{r} 12. \quad 4,369 \\ \times 873 \\ \hline 3,814,137 \end{array}$$

$$\begin{array}{r} 13. \quad 925 \\ \times 54 \\ \hline 49,950 \end{array}$$

$$\begin{array}{r} 14. \quad 851 \\ \times 462 \\ \hline 393,162 \end{array}$$

$$\begin{array}{r} 15. \quad 331 \\ \times 528 \\ \hline 174,768 \end{array}$$

$$\begin{array}{r} 16. \quad 7,421 \\ \times 694 \\ \hline 5,150,174 \end{array}$$

$$\begin{array}{r} 17. \quad 622 \\ \times 33 \\ \hline 20,526 \end{array}$$

$$\begin{array}{r} 18. \quad 795 \\ \times 787 \\ \hline 625,665 \end{array}$$

$$\begin{array}{r} 19. \quad 435 \\ \times 683 \\ \hline 297,105 \end{array}$$

$$\begin{array}{r} 20. \quad 5,872 \\ \times 515 \\ \hline 3,024,080 \end{array}$$

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13

Name _____ Date _____

Division with One-Digit Quotients

Solve each problem.

Total Problems: 24
Problems Correct: _____

$$1. \quad 8 \overline{)64}$$

$$2. \quad 5 \overline{)25}$$

$$3. \quad 5 \overline{)30}$$

$$4. \quad 8 \overline{)40}$$

$$5. \quad 4 \overline{)20}$$

$$6. \quad 9 \overline{)81}$$

$$7. \quad 8 \overline{)24}$$

$$8. \quad 7 \overline{)77}$$

$$9. \quad 8 \overline{)32}$$

$$10. \quad 9 \overline{)27}$$

$$11. \quad 7 \overline{)42}$$

$$12. \quad 6 \overline{)54}$$

$$13. \quad 6 \overline{)36}$$

$$14. \quad 3 \overline{)12}$$

$$15. \quad 5 \overline{)30}$$

$$16. \quad 8 \overline{)56}$$

$$17. \quad 8 \overline{)16}$$

$$18. \quad 5 \overline{)35}$$

$$19. \quad 7 \overline{)14}$$

$$20. \quad 9 \overline{)36}$$

$$21. \quad 6 \overline{)24}$$

$$22. \quad 9 \overline{)90}$$

$$23. \quad 9 \overline{)63}$$

$$24. \quad 6 \overline{)60}$$

14

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Name _____ Date _____

Division with One-Digit Quotients

Solve each problem.

Total Problems: 20
Problems Correct: _____

$$1. \quad 4 \overline{)100}$$

$$2. \quad 2 \overline{)132}$$

$$3. \quad 3 \overline{)225}$$

$$4. \quad 9 \overline{)198}$$

$$5. \quad 2 \overline{)902}$$

$$6. \quad 7 \overline{)112}$$

$$7. \quad 6 \overline{)510}$$

$$8. \quad 4 \overline{)216}$$

$$9. \quad 6 \overline{)426}$$

$$10. \quad 2 \overline{)630}$$

$$11. \quad 3 \overline{)138}$$

$$12. \quad 9 \overline{)369}$$

$$13. \quad 8 \overline{)624}$$

$$14. \quad 6 \overline{)396}$$

$$15. \quad 8 \overline{)648}$$

$$16. \quad 5 \overline{)310}$$

$$17. \quad 5 \overline{)425}$$

$$18. \quad 7 \overline{)672}$$

$$19. \quad 3 \overline{)864}$$

$$20. \quad 7 \overline{)965}$$

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15

Answer Key

Name _____ Date _____

Division with Two-Digit Quotients

Total Problems: 20
Problems Correct: _____

Solve each problem.

1. $14 \overline{)22308}$
2. $18 \overline{)17306}$
3. $50 \overline{)241200}$
4. $55 \overline{)864730}$
5. $61 \overline{)734453}$
6. $26 \overline{)11286}$
7. $29 \overline{)33957}$
8. $28 \overline{)381064}$
9. $52 \overline{)743848}$
10. $62 \overline{)291798}$
11. $52 \overline{)16832}$
12. $17 \overline{)53901}$
13. $33 \overline{)451485}$
14. $56 \overline{)915096}$
15. $24 \overline{)821968}$
16. $14 \overline{)41574}$
17. $12 \overline{)62744}$
18. $63 \overline{)573591}$
19. $72 \overline{)181296}$
20. $42 \overline{)953990}$

16

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Name _____ Date _____

Division with One- and Two-Digit Quotients and Remainders

Total Problems: 20
Problems Correct: _____

Solve each problem.

1. $9 \text{ r}3 \overline{)875}$
2. $4 \text{ r}11 \overline{)24107}$
3. $11 \text{ r}13 \overline{)48541}$
4. $26 \text{ r}4 \overline{)18472}$
5. $23 \text{ r}8 \overline{)22514}$
6. $16 \text{ r}3 \overline{)467}$
7. $28 \text{ r}3 \overline{)16451}$
8. $12 \text{ r}10 \overline{)62754}$
9. $29 \text{ r}18 \overline{)23685}$
10. $16 \text{ r}12 \overline{)42684}$
11. $11 \text{ r}2 \overline{)678}$
12. $5 \text{ r}27 \overline{)32187}$
13. $41 \text{ r}8 \overline{)13541}$
14. $20 \text{ r}11 \overline{)46931}$
15. $6 \text{ r}3 \overline{)52315}$
16. $26 \text{ r}1 \overline{)379}$
17. $16 \text{ r}7 \overline{)51823}$
18. $11 \text{ r}51 \overline{)72843}$
19. $13 \text{ r}7 \overline{)50657}$
20. $15 \text{ r}7 \overline{)37562}$

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Name _____ Date _____

Division with Two- and Three-Digit Quotients and Remainders

Total Problems: 20
Problems Correct: _____

Solve each problem.

1. $56 \text{ r}2 \overline{)281570}$
2. $127 \text{ r}15 \overline{)364587}$
3. $120 \text{ r}38 \overline{)819758}$
4. $11 \text{ r}227 \overline{)5616398}$
5. $52 \text{ r}43 \overline{)1226387}$
6. $134 \text{ r}10 \overline{)162154}$
7. $19 \text{ r}20 \overline{)971863}$
8. $199 \text{ r}5 \overline{)193786}$
9. $21 \text{ r}116 \overline{)1172573}$
10. $13 \text{ r}122 \overline{)1842514}$
11. $106 \text{ r}42 \overline{)473024}$
12. $117 \text{ r}36 \overline{)657641}$
13. $191 \text{ r}13 \overline{)244597}$
14. $19 \text{ r}203 \overline{)2645219}$
15. $8 \text{ r}191 \overline{)5124287}$
16. $85 \text{ r}18 \overline{)534523}$
17. $124 \text{ r}14 \overline{)728942}$
18. $112 \text{ r}8 \overline{)384264}$
19. $20 \text{ r}8 \overline{)4358708}$
20. $18 \text{ r}59 \overline{)3716737}$

18

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Name _____ Date _____

Understanding Fractions

Total Problems: 12
Problems Correct: _____

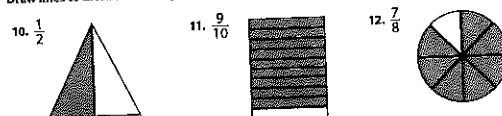
Write the fraction for each of the following descriptions.

1. four-fifths $\frac{4}{5}$
2. two-thirds $\frac{2}{3}$
3. three-eighths $\frac{3}{8}$
4. Numerator 1, Denominator 10 $\frac{1}{10}$
5. Denominator 7, Numerator 9 $\frac{9}{7}$
6. Numerator 3, Denominator 4 $\frac{3}{4}$

Shade each shape to show the fraction.



Draw lines to divide each shape. Then, shade each shape to show the fraction.



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Answer Key

Name _____ Date _____

Making Fractions Equivalent

Make each pair of fractions equivalent.

Total Problems: 20
Problems Correct: _____

1. $\frac{1}{2} = \frac{2}{4}$
2. $\frac{3}{5} = \frac{12}{20}$
3. $\frac{5}{6} = \frac{35}{42}$
4. $\frac{3}{4} = \frac{9}{12}$
5. $\frac{2}{3} = \frac{8}{12}$
6. $\frac{1}{5} = \frac{5}{25}$
7. $\frac{1}{4} = \frac{2}{8}$
8. $\frac{2}{7} = \frac{4}{14}$
9. $\frac{3}{7} = \frac{12}{28}$
10. $\frac{1}{3} = \frac{3}{9}$
11. $\frac{2}{3} = \frac{10}{15}$
12. $\frac{1}{8} = \frac{8}{64}$
13. $\frac{2}{5} = \frac{6}{15}$
14. $\frac{3}{4} = \frac{9}{12}$
15. $\frac{6}{7} = \frac{12}{14}$
16. $\frac{4}{5} = \frac{12}{15}$

Fill in the numbers to complete each row, making each fraction equivalent to the first one.

17. $\frac{1}{2} = \frac{3}{6} = \frac{4}{8} = \frac{6}{12} = \frac{2}{4} = \frac{5}{10}$
18. $\frac{2}{3} = \frac{8}{12} = \frac{4}{6} = \frac{10}{15} = \frac{6}{9} = \frac{12}{18}$
19. $\frac{1}{4} = \frac{2}{8} = \frac{5}{20} = \frac{3}{12} = \frac{6}{24} = \frac{4}{16}$
20. $\frac{3}{5} = \frac{15}{25} = \frac{9}{15} = \frac{6}{10} = \frac{12}{20} = \frac{18}{30}$

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Comparing Fractions

Write >, <, or = to make each statement true.

Total Problems: 15
Problems Correct: _____

1. $\frac{1}{2} \text{ (} = \text{)} \frac{4}{8}$
2. $\frac{2}{5} \text{ (} < \text{)} \frac{3}{4}$
3. $\frac{5}{6} \text{ (} < \text{)} \frac{7}{8}$
4. $\frac{5}{8} \text{ (} > \text{)} \frac{13}{32}$
5. $\frac{1}{8} \text{ (} < \text{)} \frac{3}{5}$
6. $\frac{1}{4} \text{ (} < \text{)} \frac{2}{5}$
7. $\frac{1}{6} \text{ (} < \text{)} \frac{1}{3}$
8. $\frac{4}{5} \text{ (} = \text{)} \frac{16}{20}$
9. $\frac{2}{3} \text{ (} > \text{)} \frac{1}{5}$
10. $\frac{1}{2} \text{ (} < \text{)} \frac{4}{5}$
11. $\frac{11}{16} \text{ (} > \text{)} \frac{3}{8}$
12. $\frac{4}{7} \text{ (} < \text{)} \frac{1}{2}$

Rewrite each series of fractions so that they have like denominators. Order each series from smallest to largest. Then, write each fraction in simplest form.

- | | Same denominator,
smallest to largest | Simplest form |
|---|--|---|
| 13. $\frac{1}{3}, \frac{3}{4}, \frac{1}{2}$ | $\frac{4}{12}, \frac{6}{12}, \frac{9}{12}$ | $\frac{1}{3}, \frac{1}{2}, \frac{3}{4}$ |
| 14. $\frac{5}{6}, \frac{2}{9}, \frac{1}{3}$ | $\frac{8}{36}, \frac{12}{36}, \frac{30}{36}$ | $\frac{2}{9}, \frac{1}{3}, \frac{5}{6}$ |
| 15. $\frac{1}{6}, \frac{7}{8}, \frac{3}{4}$ | $\frac{4}{24}, \frac{18}{24}, \frac{21}{24}$ | $\frac{1}{6}, \frac{3}{4}, \frac{7}{8}$ |

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Finding the Greatest Common Factor

List the common factors of the numerator and denominator of each fraction. Then, write the greatest common factor (GCF). Divide the numerator and denominator by the GCF and write each fraction in simplest form.

Total Problems: 10
Problems Correct: _____

	Fraction	Common Factors	GCF	Simplest Form
1.	$\frac{10}{12}$	1, 2	2	$\frac{5}{6}$
2.	$\frac{18}{27}$	1, 3, 9	9	$\frac{2}{3}$
3.	$\frac{25}{100}$	1, 5, 25	25	$\frac{1}{4}$
4.	$\frac{5}{30}$	1, 5	5	$\frac{1}{6}$
5.	$\frac{12}{30}$	1, 2, 3, 6	6	$\frac{2}{5}$
6.	$\frac{24}{32}$	1, 2, 4, 8	8	$\frac{3}{4}$
7.	$\frac{14}{21}$	1, 7	7	$\frac{2}{3}$
8.	$\frac{8}{40}$	1, 2, 4, 8	8	$\frac{1}{5}$
9.	$\frac{15}{18}$	1, 3	3	$\frac{5}{6}$
10.	$\frac{10}{20}$	1, 2, 5, 10	10	$\frac{1}{2}$

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Writing Fractions in Simplest Form

Write each fraction or mixed number in simplest form.

Total Problems: 24
Problems Correct: _____

1. $\frac{6}{8} = \frac{3}{4}$
2. $\frac{6}{15} = \frac{2}{5}$
3. $\frac{27}{81} = \frac{1}{3}$
4. $2\frac{24}{30} = 2\frac{4}{5}$
5. $4\frac{4}{8} = 4\frac{1}{2}$
6. $\frac{2}{4} = \frac{1}{2}$
7. $\frac{2}{10} = \frac{1}{5}$
8. $\frac{12}{24} = \frac{1}{2}$
9. $3\frac{12}{18} = 3\frac{2}{3}$
10. $5\frac{10}{15} = 5\frac{2}{3}$
11. $\frac{15}{18} = \frac{5}{6}$
12. $\frac{20}{40} = \frac{1}{2}$
13. $\frac{10}{15} = \frac{2}{3}$
14. $1\frac{18}{20} = 1\frac{9}{10}$
15. $3\frac{6}{9} = 3\frac{2}{3}$
16. $\frac{16}{24} = \frac{2}{3}$
17. $\frac{16}{32} = \frac{1}{2}$
18. $\frac{14}{21} = \frac{2}{3}$
19. $4\frac{3}{24} = 4\frac{1}{8}$
20. $2\frac{8}{32} = 2\frac{1}{4}$
21. $\frac{10}{40} = \frac{1}{4}$
22. $\frac{56}{64} = \frac{7}{8}$
23. $3\frac{6}{18} = 3\frac{1}{3}$
24. $\frac{48}{50} = \frac{24}{25}$

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Answer Key

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Writing Mixed Numbers as Improper Fractions

Total Problems: 10
Problems Correct: _____

Write each mixed number as an improper fraction.

$$1. 2\frac{3}{4} = \frac{(2 \times 4) + 3}{4} = \frac{11}{4}$$

$$2. 3\frac{1}{3} = \frac{(3 \times 3) + 1}{3} = \frac{10}{3}$$

$$3. 2\frac{7}{8} = \frac{(2 \times 8) + 7}{8} = \frac{23}{8}$$

$$4. 7\frac{3}{4} = \frac{(7 \times 4) + 3}{4} = \frac{31}{4}$$

$$5. 1\frac{4}{5} = \frac{(1 \times 5) + 4}{5} = \frac{9}{5}$$

$$6. 4\frac{3}{8} = \frac{(4 \times 8) + 3}{8} = \frac{35}{8}$$

$$7. 1\frac{2}{5} = \frac{(1 \times 5) + 2}{5} = \frac{7}{5}$$

$$8. 4\frac{5}{6} = \frac{(4 \times 6) + 5}{6} = \frac{29}{6}$$

$$9. 2\frac{7}{9} = \frac{(2 \times 9) + 7}{9} = \frac{25}{9}$$

$$10. 5\frac{3}{11} = \frac{(5 \times 11) + 3}{11} = \frac{58}{11}$$

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Writing Mixed Numbers as Improper Fractions

Total Problems: 12
Problems Correct: _____

Write each mixed number as an improper fraction.

$$1. 2\frac{5}{8} = \frac{21}{8}$$

$$2. 3\frac{6}{7} = \frac{27}{7}$$

$$3. 8\frac{5}{11} = \frac{93}{11}$$

$$4. 8\frac{2}{3} = \frac{26}{3}$$

$$5. 4\frac{1}{2} = \frac{9}{2}$$

$$6. 8\frac{7}{8} = \frac{71}{8}$$

$$7. 3\frac{3}{10} = \frac{33}{10}$$

$$8. 2\frac{3}{5} = \frac{13}{5}$$

$$9. 6\frac{3}{4} = \frac{27}{4}$$

$$10. 2\frac{1}{9} = \frac{19}{9}$$

$$11. 4\frac{5}{12} = \frac{53}{12}$$

$$12. 5\frac{5}{7} = \frac{40}{7}$$

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Writing Improper Fractions as Mixed Numbers

Total Problems: 10
Problems Correct: _____

Write each improper fraction as a mixed number.

$$1. \frac{15}{8} = 8 \overline{)15} = 1\frac{7}{8}$$

$$2. \frac{25}{13} = 13 \overline{)25} = 1\frac{12}{13}$$

$$3. \frac{54}{7} = 7 \overline{)54} = 7\frac{5}{7}$$

$$4. \frac{29}{5} = 5 \overline{)29} = 5\frac{4}{5}$$

$$5. \frac{85}{22} = 22 \overline{)85} = 3\frac{19}{22}$$

$$6. \frac{10}{4} = 4 \overline{)10} = 2\frac{1}{2}$$

$$7. \frac{62}{8} = 8 \overline{)62} = 7\frac{3}{4}$$

$$8. \frac{34}{10} = 10 \overline{)34} = 3\frac{2}{5}$$

$$9. \frac{43}{16} = 16 \overline{)43} = 2\frac{11}{16}$$

$$10. \frac{33}{7} = 7 \overline{)33} = 4\frac{5}{7}$$

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Writing Improper Fractions as Mixed Numbers

Total Problems: 10
Problems Correct: _____

Write each improper fraction as a mixed number.

$$1. \frac{16}{7} = 2\frac{2}{7}$$

$$2. \frac{32}{9} = 3\frac{5}{9}$$

$$3. \frac{37}{12} = 3\frac{1}{12}$$

$$4. \frac{12}{5} = 2\frac{2}{5}$$

$$5. \frac{50}{27} = 1\frac{23}{27}$$

$$6. \frac{10}{4} = 2\frac{1}{2}$$

$$7. \frac{53}{16} = 3\frac{5}{16}$$

$$8. \frac{86}{19} = 4\frac{10}{19}$$

$$9. \frac{14}{13} = 1\frac{1}{13}$$

$$10. \frac{43}{20} = 2\frac{3}{20}$$

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Answer Key

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Fractions Review

Total Problems: 25
Problems Correct: _____

Make each pair of fractions equivalent.

1. $\frac{3}{4} = \frac{12}{16}$ 2. $\frac{5}{6} = \frac{25}{30}$ 3. $\frac{3}{8} = \frac{12}{32}$
4. $\frac{1}{3} = \frac{3}{9}$ 5. $\frac{5}{12} = \frac{25}{60}$ 6. $\frac{1}{5} = \frac{5}{25}$

Write <, >, or = to make each statement true.

7. $3 > \frac{6}{5}$ 8. $\frac{7}{9} > \frac{5}{18}$ 9. $\frac{3}{4} > \frac{2}{3}$
10. $\frac{1}{2} > \frac{1}{3}$ 11. $\frac{12}{24} = \frac{1}{2}$ 12. $\frac{7}{8} > \frac{7}{16}$

List the common factors of the numerator and denominator of each fraction. Then, write the GCF. Divide the numerator and denominator by the GCF and write each fraction in simplest form.

Fraction	Common Factors	GCF	Simplest Form
13. $\frac{12}{24}$	1, 2, 3, 4, 6, 12	12	$\frac{1}{2}$
14. $\frac{21}{28}$	1, 7	7	$\frac{3}{4}$
15. $\frac{16}{32}$	1, 2, 4, 8, 16	16	$\frac{1}{2}$
16. $\frac{45}{54}$	1, 3, 9	9	$\frac{5}{6}$

Write each Improper fraction as a mixed number.

17. $\frac{25}{15} = 1\frac{2}{3}$ 18. $\frac{43}{16} = 2\frac{9}{16}$ 19. $\frac{64}{10} = 6\frac{2}{5}$
20. $\frac{30}{14} = 2\frac{1}{7}$ 21. $\frac{32}{9} = 3\frac{5}{9}$ 22. $\frac{10}{8} = 1\frac{1}{4}$
23. $\frac{12}{7} = 1\frac{5}{7}$ 24. $\frac{16}{12} = 1\frac{1}{3}$ 25. $\frac{14}{3} = 4\frac{2}{3}$

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Finding the Least Common Denominator

Total Problems: 12
Problems Correct: _____

Find the least common denominator (LCD) for each pair of fractions.

1. $\frac{3}{5}, \frac{3}{7}$ 35 2. $\frac{1}{3}, \frac{1}{5}$ 15 3. $\frac{3}{5}, \frac{3}{8}$ 40
4. $\frac{1}{3}, \frac{3}{4}$ 12 5. $\frac{3}{4}, \frac{1}{5}$ 20 6. $\frac{3}{6}, \frac{1}{2}$ 6
7. $\frac{1}{4}, \frac{3}{8}$ 8 8. $\frac{1}{6}, \frac{2}{3}$ 6 9. $\frac{2}{5}, \frac{1}{2}$ 10
10. $\frac{5}{6}, \frac{3}{5}$ 30 11. $\frac{7}{8}, \frac{2}{3}$ 24 12. $\frac{1}{4}, \frac{1}{2}$ 4

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Name _____ Date _____

Adding Fractions with Like Denominators

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{1}{3} + \frac{2}{3} = 1$ 2. $\frac{1}{9} + \frac{2}{9} = \frac{1}{3}$ 3. $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
4. $\frac{2}{7} + \frac{4}{7} = \frac{6}{7}$ 5. $\frac{5}{15} + \frac{2}{15} = \frac{7}{15}$ 6. $\frac{1}{4} + \frac{3}{4} = 1$
7. $\frac{3}{8} + \frac{7}{8} = 1\frac{1}{4}$ 8. $\frac{5}{9} + \frac{8}{9} = 1\frac{4}{9}$ 9. $\frac{7}{12} + \frac{2}{12} = \frac{3}{4}$
10. $\frac{9}{13} + \frac{8}{13} = 1\frac{4}{13}$ 11. $\frac{1}{7} + \frac{4}{7} = \frac{5}{7}$ 12. $\frac{7}{10} + \frac{1}{10} = \frac{4}{5}$
13. $\frac{1}{2} + \frac{1}{2} = 1$ 14. $\frac{2}{5} + \frac{5}{5} = 1\frac{2}{5}$ 15. $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$

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Name _____ Date _____

Adding Fractions with Like Denominators

Total Problems: 16
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $\frac{4}{9} + \frac{2}{9} = \frac{2}{3}$ 2. $\frac{5}{6} + \frac{1}{6} = 1$ 3. $\frac{5}{8} + \frac{1}{8} = \frac{3}{4}$ 4. $\frac{4}{5} + \frac{2}{5} = 1\frac{1}{5}$
5. $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$ 6. $\frac{3}{7} + \frac{1}{7} = \frac{4}{7}$ 7. $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ 8. $\frac{10}{13} + \frac{11}{13} = 1\frac{8}{13}$
9. $\frac{7}{12} + \frac{5}{12} = 1$ 10. $\frac{2}{15} + \frac{3}{15} = \frac{1}{3}$ 11. $\frac{2}{17} + \frac{4}{17} = \frac{6}{17}$ 12. $\frac{5}{18} + \frac{3}{18} = \frac{4}{9}$
13. $\frac{7}{10} + \frac{7}{10} = 1\frac{2}{5}$ 14. $\frac{9}{11} + \frac{6}{11} = 1\frac{4}{11}$ 15. $\frac{4}{10} + \frac{2}{10} = \frac{3}{5}$ 16. $\frac{1}{2} + \frac{1}{2} = 1$

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Answer Key

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Adding Fractions with Unlike Denominators

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{1}{2} + \frac{2}{5} = \frac{9}{10}$$

$$2. \frac{1}{6} + \frac{3}{4} = \frac{11}{12}$$

$$3. \frac{1}{8} + \frac{3}{4} = \frac{7}{8}$$

$$4. \frac{2}{3} + \frac{3}{4} = 1\frac{5}{12}$$

$$5. \frac{5}{12} + \frac{2}{10} = \frac{37}{60}$$

$$6. \frac{2}{3} + \frac{3}{5} = 1\frac{4}{15}$$

$$7. \frac{3}{7} + \frac{1}{3} = \frac{16}{21}$$

$$8. \frac{1}{9} + \frac{2}{7} = \frac{25}{63}$$

$$9. \frac{7}{10} + \frac{3}{12} = \frac{19}{20}$$

$$10. \frac{1}{6} + \frac{3}{5} = \frac{23}{30}$$

$$11. \frac{1}{4} + \frac{3}{8} = \frac{5}{8}$$

$$12. \frac{1}{10} + \frac{2}{11} = \frac{31}{110}$$

$$13. \frac{2}{5} + \frac{1}{3} = \frac{11}{15}$$

$$14. \frac{2}{7} + \frac{5}{6} = 1\frac{5}{42}$$

$$15. \frac{3}{5} + \frac{1}{10} = \frac{7}{10}$$

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Adding Fractions with Unlike Denominators

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{1}{4} + \frac{3}{5} = \frac{17}{20}$$

$$2. \frac{1}{2} + \frac{1}{5} = \frac{7}{10}$$

$$3. \frac{4}{5} + \frac{3}{3} = 1\frac{7}{15}$$

$$4. \frac{2}{3} + \frac{2}{5} = 1\frac{1}{15}$$

$$5. \frac{4}{5} + \frac{7}{8} = 1\frac{27}{40}$$

$$6. \frac{3}{4} + \frac{1}{3} = 1\frac{1}{12}$$

$$7. \frac{1}{6} + \frac{2}{5} = \frac{17}{30}$$

$$8. \frac{3}{6} + \frac{3}{4} = 1\frac{1}{4}$$

$$9. \frac{1}{4} + \frac{2}{3} = \frac{11}{12}$$

$$10. \frac{5}{8} + \frac{2}{3} = 1\frac{27}{24}$$

$$11. \frac{2}{5} + \frac{1}{3} = \frac{11}{15}$$

$$12. \frac{1}{3} + \frac{5}{7} = 1\frac{1}{21}$$

$$13. \frac{1}{4} + \frac{7}{8} = 1\frac{1}{8}$$

$$14. \frac{2}{3} + \frac{2}{10} = \frac{13}{15}$$

$$15. \frac{1}{3} + \frac{2}{5} = \frac{2}{3}$$

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Name _____ Date _____

Adding Mixed Numbers with Like Denominators

Total Problems: 12
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 3\frac{1}{4} + 2\frac{2}{4} = 5\frac{3}{4}$$

$$2. 5\frac{1}{3} + 2\frac{1}{3} = 7\frac{2}{3}$$

$$3. 5\frac{8}{9} + 6\frac{2}{9} = 12\frac{1}{9}$$

$$4. 5\frac{1}{8} + 6\frac{5}{8} = 11\frac{3}{4}$$

$$5. 5\frac{1}{8} + 2\frac{3}{8} = 7\frac{1}{2}$$

$$6. 3\frac{1}{6} + 2\frac{1}{6} = 5\frac{1}{3}$$

$$7. 4\frac{4}{5} + 3\frac{3}{5} = 8\frac{2}{5}$$

$$8. 4\frac{1}{3} + 5\frac{2}{3} = 10$$

$$9. 7\frac{2}{9} + 1\frac{5}{9} = 8\frac{7}{9}$$

$$10. 2\frac{2}{5} + 1\frac{3}{5} = 4$$

$$11. 2\frac{5}{7} + 3\frac{6}{7} = 6\frac{4}{7}$$

$$12. 7\frac{5}{6} + 8\frac{4}{6} = 16\frac{1}{2}$$

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Name _____ Date _____

Adding Mixed Numbers with Like Denominators

Total Problems: 14
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 1\frac{6}{8} + 2\frac{4}{8} = 4\frac{1}{4}$$

$$2. 3\frac{2}{6} + 4\frac{3}{6} = 7\frac{5}{6}$$

$$3. 5\frac{5}{16} + 3\frac{7}{16} = 8\frac{3}{4}$$

$$4. 3\frac{1}{4} + 6\frac{1}{4} = 9\frac{1}{2}$$

$$5. 8\frac{1}{6} + 4\frac{5}{6} = 13$$

$$6. 3\frac{3}{7} + 4\frac{3}{7} = 7\frac{6}{7}$$

$$7. 8\frac{5}{6} + 7\frac{5}{6} = 16\frac{2}{3}$$

$$8. 7\frac{1}{3} + 7\frac{2}{3} = 15$$

$$9. 5\frac{3}{8} + 4\frac{1}{8} = 9\frac{1}{2}$$

$$10. 3\frac{9}{10} + 2\frac{7}{10} = 6\frac{3}{5}$$

$$11. 1\frac{5}{12} + 7\frac{11}{12} = 9\frac{1}{3}$$

$$12. 2\frac{7}{9} + 5\frac{4}{9} = 8\frac{2}{9}$$

$$13. 7\frac{4}{5} + 3\frac{1}{5} = 11$$

$$14. 4\frac{2}{3} + 6\frac{2}{3} = 11\frac{1}{3}$$

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Answer Key

Name _____ Date _____

Adding Mixed Numbers with Unlike Denominators

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 4\frac{1}{8} + 5\frac{3}{4} = 9\frac{7}{8} \quad 2. 4\frac{7}{8} + 6\frac{1}{4} = 11\frac{1}{8} \quad 3. 4\frac{3}{4} + 1\frac{2}{3} = 6\frac{5}{12}$$

$$4. 4\frac{1}{8} + 5\frac{1}{5} = 9\frac{13}{40} \quad 5. 8\frac{3}{4} + 7\frac{3}{16} = 15\frac{15}{16} \quad 6. 6\frac{1}{2} + 6\frac{2}{5} = 12\frac{9}{10}$$

$$7. 8\frac{1}{3} + 2\frac{3}{7} = 10\frac{16}{21} \quad 8. 5\frac{1}{8} + 6\frac{2}{5} = 11\frac{21}{40} \quad 9. 1\frac{9}{10} + 3\frac{1}{4} = 5\frac{3}{20}$$

$$10. 2\frac{3}{4} + 3\frac{5}{6} = 6\frac{7}{12} \quad 11. 3\frac{1}{9} + 2\frac{1}{3} = 5\frac{4}{9} \quad 12. 5\frac{2}{3} + 7\frac{3}{7} = 13\frac{2}{21}$$

$$13. 2\frac{5}{6} + 3\frac{1}{3} = 6\frac{1}{6} \quad 14. 5\frac{1}{2} + 6\frac{2}{7} = 11\frac{11}{14} \quad 15. 5\frac{5}{15} + 2\frac{3}{5} = 7\frac{3}{5}$$

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Name _____ Date _____

Adding Mixed Numbers with Unlike Denominators

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 1\frac{1}{4} + 2\frac{5}{6} = 4\frac{1}{12} \quad 2. 6\frac{7}{12} + 8\frac{7}{13} = 15\frac{19}{156} \quad 3. 5\frac{10}{11} + 6\frac{3}{22} = 12\frac{1}{22} \quad 4. 10\frac{4}{5} + 7\frac{1}{8} = 17\frac{37}{40} \quad 5. 3\frac{3}{4} + 6\frac{1}{3} = 10\frac{1}{12}$$

$$6. 9\frac{3}{5} + 6\frac{2}{3} = 16\frac{4}{15} \quad 7. 5\frac{1}{5} + 6\frac{2}{4} = 11\frac{7}{10} \quad 8. 3\frac{2}{3} + 4\frac{4}{5} = 8\frac{7}{15} \quad 9. 8\frac{1}{7} + 6\frac{2}{3} = 14\frac{17}{21} \quad 10. 2\frac{1}{5} + 6\frac{1}{4} = 8\frac{9}{20}$$

$$11. 8\frac{5}{6} + 3\frac{3}{4} = 12\frac{7}{12} \quad 12. 5\frac{1}{3} + 2\frac{3}{4} = 8\frac{1}{12} \quad 13. 4\frac{1}{8} + 3\frac{1}{2} = 7\frac{5}{8} \quad 14. 8\frac{9}{10} + 4\frac{1}{4} = 13\frac{3}{20} \quad 15. 8\frac{1}{6} + 3\frac{3}{4} = 11\frac{2}{3}$$

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Subtracting Fractions with Like Denominators

Total Problems: 20
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{5}{6} - \frac{1}{6} = \frac{2}{3} \quad 2. \frac{3}{4} - \frac{1}{4} = \frac{1}{2} \quad 3. \frac{5}{9} - \frac{2}{9} = \frac{1}{3} \quad 4. \frac{7}{8} - \frac{5}{8} = \frac{1}{4}$$

$$5. \frac{3}{7} - \frac{2}{7} = \frac{1}{7} \quad 6. \frac{7}{8} - \frac{3}{8} = \frac{1}{2} \quad 7. \frac{5}{7} - \frac{2}{7} = \frac{3}{7} \quad 8. \frac{5}{8} - \frac{1}{8} = \frac{1}{2}$$

$$9. \frac{5}{9} - \frac{4}{9} = \frac{1}{9} \quad 10. \frac{4}{6} - \frac{2}{6} = \frac{1}{3} \quad 11. \frac{3}{10} - \frac{1}{10} = \frac{1}{5} \quad 12. \frac{7}{9} - \frac{1}{9} = \frac{2}{3}$$

$$13. \frac{3}{5} - \frac{2}{5} = \frac{1}{5} \quad 14. \frac{5}{7} - \frac{3}{7} = \frac{2}{7} \quad 15. \frac{2}{3} - \frac{1}{3} = \frac{1}{3} \quad 16. \frac{15}{16} - \frac{7}{16} = \frac{1}{2}$$

$$17. \frac{4}{5} - \frac{2}{5} = \frac{2}{5} \quad 18. \frac{3}{6} - \frac{2}{6} = \frac{1}{6} \quad 19. \frac{2}{5} - \frac{1}{5} = \frac{1}{5} \quad 20. \frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

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Name _____ Date _____

Subtracting Fractions with Like Denominators

Total Problems: 20
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{2}{5} - \frac{1}{5} = \frac{1}{5} \quad 2. \frac{5}{7} - \frac{2}{7} = \frac{3}{7} \quad 3. \frac{3}{5} - \frac{1}{5} = \frac{2}{5} \quad 4. \frac{2}{8} - \frac{1}{8} = \frac{1}{8}$$

$$5. \frac{2}{4} - \frac{1}{4} = \frac{1}{4} \quad 6. \frac{7}{8} - \frac{3}{8} = \frac{1}{2} \quad 7. \frac{2}{3} - \frac{1}{3} = \frac{1}{3} \quad 8. \frac{7}{9} - \frac{5}{9} = \frac{2}{9}$$

$$9. \frac{4}{6} - \frac{1}{6} = \frac{1}{2} \quad 10. \frac{4}{7} - \frac{2}{7} = \frac{2}{7} \quad 11. \frac{7}{10} - \frac{3}{10} = \frac{2}{5} \quad 12. \frac{7}{8} - \frac{5}{8} = \frac{1}{4}$$

$$13. \frac{3}{4} - \frac{2}{4} = \frac{1}{4} \quad 14. \frac{5}{9} - \frac{1}{9} = \frac{4}{9} \quad 15. \frac{4}{8} - \frac{1}{8} = \frac{3}{8} \quad 16. \frac{11}{14} - \frac{9}{14} = \frac{1}{7}$$

$$17. \frac{5}{6} - \frac{1}{6} = \frac{2}{3} \quad 18. \frac{4}{5} - \frac{2}{5} = \frac{2}{5} \quad 19. \frac{1}{2} - \frac{1}{2} = 0 \quad 20. \frac{3}{5} - \frac{2}{5} = \frac{1}{5}$$

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Answer Key

Name _____ Date _____

Subtracting Fractions with Unlike Denominators

Total Problems: 20
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad \frac{3}{9} \\ - \frac{1}{4} \\ \hline \frac{1}{12} \end{array}$$

$$\begin{array}{r} 2. \quad \frac{3}{4} \\ - \frac{1}{5} \\ \hline \frac{11}{20} \end{array}$$

$$\begin{array}{r} 3. \quad \frac{4}{5} \\ - \frac{1}{10} \\ \hline \frac{3}{10} \end{array}$$

$$\begin{array}{r} 4. \quad \frac{5}{7} \\ - \frac{2}{9} \\ \hline \frac{31}{63} \end{array}$$

$$\begin{array}{r} 5. \quad \frac{2}{3} \\ - \frac{4}{9} \\ \hline \frac{2}{9} \end{array}$$

$$\begin{array}{r} 6. \quad \frac{3}{8} \\ - \frac{2}{6} \\ \hline \frac{1}{24} \end{array}$$

$$\begin{array}{r} 7. \quad \frac{2}{4} \\ - \frac{1}{3} \\ \hline \frac{1}{6} \end{array}$$

$$\begin{array}{r} 8. \quad \frac{1}{5} \\ - \frac{1}{8} \\ \hline \frac{3}{40} \end{array}$$

$$\begin{array}{r} 9. \quad \frac{7}{12} \\ - \frac{1}{4} \\ \hline \frac{1}{3} \end{array}$$

$$\begin{array}{r} 10. \quad \frac{3}{9} \\ - \frac{1}{3} \\ \hline 0 \end{array}$$

$$\begin{array}{r} 11. \quad \frac{7}{8} \\ - \frac{1}{2} \\ \hline \frac{3}{8} \end{array}$$

$$\begin{array}{r} 12. \quad \frac{8}{8} \\ - \frac{4}{6} \\ \hline \frac{1}{3} \end{array}$$

$$\begin{array}{r} 13. \quad \frac{2}{3} \\ - \frac{1}{2} \\ \hline \frac{1}{6} \end{array}$$

$$\begin{array}{r} 14. \quad \frac{1}{2} \\ - \frac{1}{4} \\ \hline \frac{1}{4} \end{array}$$

$$\begin{array}{r} 15. \quad \frac{1}{3} \\ - \frac{1}{6} \\ \hline \frac{1}{6} \end{array}$$

$$\begin{array}{r} 16. \quad \frac{8}{9} \\ - \frac{3}{6} \\ \hline \frac{7}{18} \end{array}$$

$$\begin{array}{r} 17. \quad \frac{5}{6} \\ - \frac{1}{5} \\ \hline \frac{19}{30} \end{array}$$

$$\begin{array}{r} 18. \quad \frac{7}{8} \\ - \frac{3}{10} \\ \hline \frac{23}{40} \end{array}$$

$$\begin{array}{r} 19. \quad \frac{9}{12} \\ - \frac{2}{11} \\ \hline \frac{25}{44} \end{array}$$

$$\begin{array}{r} 20. \quad \frac{6}{6} \\ - \frac{3}{12} \\ \hline \frac{3}{4} \end{array}$$

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Name _____ Date _____

Subtracting Fractions with Unlike Denominators

Total Problems: 20
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad \frac{3}{4} \\ - \frac{1}{6} \\ \hline \frac{7}{12} \end{array}$$

$$\begin{array}{r} 2. \quad \frac{13}{15} \\ - \frac{2}{3} \\ \hline \frac{1}{5} \end{array}$$

$$\begin{array}{r} 3. \quad \frac{2}{3} \\ - \frac{7}{12} \\ \hline \frac{1}{12} \end{array}$$

$$\begin{array}{r} 4. \quad \frac{5}{6} \\ - \frac{1}{3} \\ \hline \frac{1}{2} \end{array}$$

$$\begin{array}{r} 5. \quad \frac{5}{6} \\ - \frac{2}{3} \\ \hline \frac{13}{30} \end{array}$$

$$\begin{array}{r} 6. \quad \frac{2}{3} \\ - \frac{1}{6} \\ \hline \frac{1}{2} \end{array}$$

$$\begin{array}{r} 7. \quad \frac{11}{14} \\ - \frac{1}{2} \\ \hline \frac{2}{7} \end{array}$$

$$\begin{array}{r} 8. \quad \frac{7}{12} \\ - \frac{1}{4} \\ \hline \frac{1}{3} \end{array}$$

$$\begin{array}{r} 9. \quad \frac{11}{12} \\ - \frac{1}{6} \\ \hline \frac{3}{4} \end{array}$$

$$\begin{array}{r} 10. \quad \frac{5}{6} \\ - \frac{3}{7} \\ \hline \frac{17}{42} \end{array}$$

$$\begin{array}{r} 11. \quad \frac{7}{8} \\ - \frac{1}{9} \\ \hline \frac{55}{72} \end{array}$$

$$\begin{array}{r} 12. \quad \frac{7}{8} \\ - \frac{1}{2} \\ \hline \frac{3}{8} \end{array}$$

$$\begin{array}{r} 13. \quad \frac{5}{12} \\ - \frac{1}{3} \\ \hline \frac{1}{12} \end{array}$$

$$\begin{array}{r} 14. \quad \frac{7}{8} \\ - \frac{1}{6} \\ \hline \frac{17}{24} \end{array}$$

$$\begin{array}{r} 15. \quad \frac{1}{3} \\ - \frac{1}{6} \\ \hline \frac{1}{6} \end{array}$$

$$\begin{array}{r} 16. \quad \frac{2}{3} \\ - \frac{4}{9} \\ \hline \frac{2}{9} \end{array}$$

$$\begin{array}{r} 17. \quad \frac{3}{4} \\ - \frac{1}{3} \\ \hline \frac{5}{12} \end{array}$$

$$\begin{array}{r} 18. \quad \frac{8}{9} \\ - \frac{5}{6} \\ \hline \frac{1}{18} \end{array}$$

$$\begin{array}{r} 19. \quad \frac{9}{12} \\ - \frac{2}{11} \\ \hline \frac{25}{44} \end{array}$$

$$\begin{array}{r} 20. \quad \frac{5}{6} \\ - \frac{1}{8} \\ \hline \frac{17}{24} \end{array}$$

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Name _____ Date _____

Subtracting Fractions from Whole Numbers

Total Problems: 16
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad 2 \\ - \frac{7}{8} \\ \hline 1\frac{1}{8} \end{array}$$

$$\begin{array}{r} 2. \quad 3 \\ - \frac{3}{4} \\ \hline 2\frac{1}{4} \end{array}$$

$$\begin{array}{r} 3. \quad 5 \\ - \frac{6}{9} \\ \hline 4\frac{1}{3} \end{array}$$

$$\begin{array}{r} 4. \quad 12 \\ - \frac{5}{7} \\ \hline 11\frac{2}{7} \end{array}$$

$$\begin{array}{r} 5. \quad 4 \\ - \frac{2}{5} \\ \hline 3\frac{3}{5} \end{array}$$

$$\begin{array}{r} 6. \quad 8 \\ - \frac{9}{10} \\ \hline 7\frac{1}{10} \end{array}$$

$$\begin{array}{r} 7. \quad 4 \\ - \frac{2}{6} \\ \hline 3\frac{2}{3} \end{array}$$

$$\begin{array}{r} 8. \quad 9 \\ - \frac{1}{3} \\ \hline 8\frac{2}{3} \end{array}$$

$$\begin{array}{r} 9. \quad 5 \\ - \frac{2}{3} \\ \hline 4\frac{1}{3} \end{array}$$

$$\begin{array}{r} 10. \quad 7 \\ - \frac{4}{5} \\ \hline 6\frac{1}{5} \end{array}$$

$$\begin{array}{r} 11. \quad 5 \\ - \frac{2}{5} \\ \hline 4\frac{3}{5} \end{array}$$

$$\begin{array}{r} 12. \quad 4 \\ - \frac{7}{8} \\ \hline 3\frac{1}{8} \end{array}$$

$$\begin{array}{r} 13. \quad 6 \\ - \frac{1}{8} \\ \hline 5\frac{7}{8} \end{array}$$

$$\begin{array}{r} 14. \quad 4 \\ - \frac{3}{10} \\ \hline 3\frac{7}{10} \end{array}$$

$$\begin{array}{r} 15. \quad 10 \\ - \frac{1}{2} \\ \hline 9\frac{1}{2} \end{array}$$

$$\begin{array}{r} 16. \quad 3 \\ - \frac{6}{7} \\ \hline 2\frac{1}{7} \end{array}$$

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Name _____ Date _____

Subtracting Fractions from Whole Numbers

Total Problems: 16
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad 15 \\ - \frac{3}{8} \\ \hline 14\frac{5}{8} \end{array}$$

$$\begin{array}{r} 2. \quad 5 \\ - \frac{3}{5} \\ \hline 4\frac{2}{5} \end{array}$$

$$\begin{array}{r} 3. \quad 1 \\ - \frac{7}{8} \\ \hline \frac{1}{8} \end{array}$$

$$\begin{array}{r} 4. \quad 8 \\ - \frac{3}{4} \\ \hline 7\frac{1}{4} \end{array}$$

$$\begin{array}{r} 5. \quad 10 \\ - \frac{2}{5} \\ \hline 9\frac{3}{5} \end{array}$$

$$\begin{array}{r} 6. \quad 9 \\ - \frac{3}{7} \\ \hline 8\frac{4}{7} \end{array}$$

$$\begin{array}{r} 7. \quad 6 \\ - \frac{1}{5} \\ \hline 5\frac{4}{5} \end{array}$$

$$\begin{array}{r} 8. \quad 4 \\ - \frac{1}{2} \\ \hline 3\frac{1}{2} \end{array}$$

$$\begin{array}{r} 9. \quad 1 \\ - \frac{1}{3} \\ \hline \frac{2}{3} \end{array}$$

$$\begin{array}{r} 10. \quad 14 \\ - \frac{2}{9} \\ \hline 13\frac{7}{9} \end{array}$$

$$\begin{array}{r} 11. \quad 7 \\ - \frac{5}{6} \\ \hline 6\frac{1}{6} \end{array}$$

$$\begin{array}{r} 12. \quad 2 \\ - \frac{1}{6} \\ \hline 1\frac{5}{6} \end{array}$$

$$\begin{array}{r} 13. \quad 2 \\ - \frac{6}{11} \\ \hline 1\frac{5}{11} \end{array}$$

$$\begin{array}{r} 14. \quad 13 \\ - \frac{2}{3} \\ \hline 12\frac{1}{3} \end{array}$$

$$\begin{array}{r} 15. \quad 5 \\ - \frac{1}{4} \\ \hline 4\frac{3}{4} \end{array}$$

$$\begin{array}{r} 16. \quad 6 \\ - \frac{3}{7} \\ \hline 5\frac{4}{7} \end{array}$$

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Answer Key

Name _____ Date _____

Subtracting Mixed Numbers with Like Denominators

Solve each problem. Write each answer in simplest form.

Total Problems: 16
Problems Correct: _____

$$\begin{array}{r} 1. \ 8\frac{4}{5} \\ -1\frac{1}{5} \\ \hline 7\frac{3}{5} \end{array}$$

$$\begin{array}{r} 2. \ 5\frac{3}{12} \\ -2\frac{17}{12} \\ \hline 1\frac{5}{6} \end{array}$$

$$\begin{array}{r} 3. \ 5\frac{1}{3} \\ -4\frac{2}{3} \\ \hline 1\frac{1}{3} \end{array}$$

$$\begin{array}{r} 4. \ 7\frac{3}{5} \\ -5\frac{1}{5} \\ \hline 2\frac{2}{5} \end{array}$$

$$\begin{array}{r} 5. \ 5\frac{2}{3} \\ -4\frac{1}{3} \\ \hline 1\frac{1}{3} \end{array}$$

$$\begin{array}{r} 6. \ 3\frac{3}{5} \\ -1\frac{4}{5} \\ \hline 1\frac{4}{5} \end{array}$$

$$\begin{array}{r} 7. \ 5\frac{3}{8} \\ -3\frac{3}{8} \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8. \ 4\frac{11}{13} \\ -2\frac{12}{13} \\ \hline 1\frac{12}{13} \end{array}$$

$$\begin{array}{r} 9. \ 3\frac{1}{2} \\ -1\frac{1}{2} \\ \hline 2 \end{array}$$

$$\begin{array}{r} 10. \ 10\frac{9}{4} \\ -7\frac{1}{4} \\ \hline 3 \end{array}$$

$$\begin{array}{r} 11. \ 9\frac{6}{7} \\ -2\frac{2}{7} \\ \hline 7\frac{4}{7} \end{array}$$

$$\begin{array}{r} 12. \ 7\frac{1}{6} \\ -5\frac{3}{6} \\ \hline 1\frac{2}{3} \end{array}$$

$$\begin{array}{r} 13. \ 4\frac{2}{6} \\ -3\frac{5}{6} \\ \hline 1\frac{1}{2} \end{array}$$

$$\begin{array}{r} 14. \ 6\frac{7}{8} \\ -1\frac{1}{8} \\ \hline 5\frac{3}{4} \end{array}$$

$$\begin{array}{r} 15. \ 2\frac{1}{8} \\ -1\frac{1}{8} \\ \hline 1 \end{array}$$

$$\begin{array}{r} 16. \ 3\frac{7}{9} \\ -2\frac{1}{9} \\ \hline 1\frac{2}{3} \end{array}$$

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Name _____ Date _____

Subtracting Mixed Numbers with Unlike Denominators

Solve each problem. Write each answer in simplest form.

Total Problems: 16
Problems Correct: _____

$$\begin{array}{r} 1. \ 12\frac{7}{8} \\ -5\frac{5}{16} \\ \hline 7\frac{9}{16} \end{array}$$

$$\begin{array}{r} 2. \ 3\frac{1}{4} \\ -2\frac{5}{12} \\ \hline \frac{5}{6} \end{array}$$

$$\begin{array}{r} 3. \ 10\frac{2}{3} \\ -9\frac{2}{9} \\ \hline 1\frac{4}{9} \end{array}$$

$$\begin{array}{r} 4. \ 3\frac{1}{8} \\ -1\frac{7}{9} \\ \hline 1\frac{25}{72} \end{array}$$

$$\begin{array}{r} 5. \ 10\frac{2}{5} \\ -7\frac{2}{3} \\ \hline 2\frac{11}{15} \end{array}$$

$$\begin{array}{r} 6. \ 8\frac{7}{10} \\ -7\frac{9}{11} \\ \hline \frac{97}{110} \end{array}$$

$$\begin{array}{r} 7. \ 8\frac{5}{10} \\ -7\frac{5}{12} \\ \hline 1\frac{1}{12} \end{array}$$

$$\begin{array}{r} 8. \ 5\frac{12}{16} \\ -5\frac{11}{20} \\ \hline \frac{1}{5} \end{array}$$

$$\begin{array}{r} 9. \ 6\frac{1}{6} \\ -5\frac{5}{12} \\ \hline \frac{3}{4} \end{array}$$

$$\begin{array}{r} 10. \ 4\frac{5}{6} \\ -2\frac{1}{24} \\ \hline 2\frac{19}{24} \end{array}$$

$$\begin{array}{r} 11. \ 8\frac{3}{16} \\ -7\frac{5}{32} \\ \hline 1\frac{1}{32} \end{array}$$

$$\begin{array}{r} 12. \ 6\frac{1}{9} \\ -2\frac{1}{3} \\ \hline 3\frac{7}{9} \end{array}$$

$$\begin{array}{r} 13. \ 2\frac{2}{5} \\ -1\frac{1}{5} \\ \hline 1\frac{1}{5} \end{array}$$

$$\begin{array}{r} 14. \ 9\frac{3}{5} \\ -4\frac{9}{20} \\ \hline 5\frac{3}{20} \end{array}$$

$$\begin{array}{r} 15. \ 4\frac{11}{18} \\ -1\frac{13}{16} \\ \hline 2\frac{115}{144} \end{array}$$

$$\begin{array}{r} 16. \ 8\frac{7}{10} \\ -6\frac{3}{40} \\ \hline 2\frac{5}{8} \end{array}$$

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Name _____ Date _____

Multiplying Fractions

Solve each problem. Write each answer in simplest form.

Total Problems: 15
Problems Correct: _____

$$1. \ \frac{1}{4} \times \frac{2}{5} = \frac{1}{10}$$

$$2. \ \frac{2}{8} \times \frac{3}{6} = \frac{1}{8}$$

$$3. \ \frac{1}{6} \times \frac{4}{5} = \frac{2}{15}$$

$$4. \ \frac{1}{3} \times \frac{5}{6} = \frac{5}{18}$$

$$5. \ \frac{4}{6} \times \frac{5}{7} = \frac{10}{21}$$

$$6. \ \frac{3}{5} \times \frac{1}{8} = \frac{3}{40}$$

$$7. \ \frac{5}{7} \times \frac{2}{4} = \frac{5}{14}$$

$$8. \ \frac{3}{4} \times \frac{4}{7} = \frac{3}{7}$$

$$9. \ \frac{3}{4} \times \frac{5}{5} = \frac{3}{4}$$

$$10. \ \frac{1}{6} \times \frac{4}{5} = \frac{2}{15}$$

$$11. \ \frac{5}{6} \times \frac{3}{4} = \frac{5}{8}$$

$$12. \ \frac{3}{5} \times \frac{3}{7} = \frac{9}{35}$$

$$13. \ \frac{2}{3} \times \frac{4}{9} = \frac{8}{27}$$

$$14. \ \frac{2}{8} \times \frac{3}{5} = \frac{1}{4}$$

$$15. \ \frac{1}{7} \times \frac{3}{4} = \frac{3}{28}$$

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Name _____ Date _____

Multiplying Fractions

Solve each problem. Write each answer in simplest form.

Total Problems: 15
Problems Correct: _____

$$1. \ \frac{5}{8} \times \frac{3}{4} = \frac{15}{32}$$

$$2. \ \frac{3}{4} \times \frac{2}{7} = \frac{3}{14}$$

$$3. \ \frac{5}{7} \times \frac{3}{7} = \frac{15}{49}$$

$$4. \ \frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$$

$$5. \ \frac{3}{6} \times \frac{7}{8} = \frac{7}{16}$$

$$6. \ \frac{2}{9} \times \frac{4}{6} = \frac{4}{27}$$

$$7. \ \frac{1}{2} \times \frac{5}{9} = \frac{5}{18}$$

$$8. \ \frac{3}{8} \times \frac{1}{4} = \frac{3}{32}$$

$$9. \ \frac{1}{4} \times \frac{3}{7} = \frac{3}{28}$$

$$10. \ \frac{4}{5} \times \frac{5}{6} = \frac{2}{3}$$

$$11. \ \frac{1}{2} \times \frac{3}{7} = \frac{3}{14}$$

$$12. \ \frac{2}{3} \times \frac{3}{5} = \frac{2}{5}$$

$$13. \ \frac{2}{6} \times \frac{2}{5} = \frac{2}{15}$$

$$14. \ \frac{8}{9} \times \frac{1}{6} = \frac{4}{27}$$

$$15. \ \frac{3}{6} \times \frac{8}{9} = \frac{12}{27}$$

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Answer Key

Name _____ Date _____

Multiplying Fractions

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{3}{4} \times \frac{2}{5} = \frac{3}{10}$$

$$2. \frac{7}{8} \times \frac{1}{6} = \frac{7}{48}$$

$$3. \frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$$

$$4. \frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$$

$$5. \frac{2}{7} \times \frac{2}{9} = \frac{4}{63}$$

$$6. \frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$$

$$7. \frac{4}{7} \times \frac{3}{8} = \frac{3}{14}$$

$$8. \frac{2}{3} \times \frac{2}{5} = \frac{4}{15}$$

$$9. \frac{1}{3} \times \frac{4}{5} = \frac{4}{15}$$

$$10. \frac{3}{5} \times \frac{1}{3} = \frac{1}{5}$$

$$11. \frac{1}{8} \times \frac{2}{5} = \frac{1}{20}$$

$$12. \frac{1}{6} \times \frac{2}{3} = \frac{1}{9}$$

$$13. \frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$$

$$14. \frac{1}{8} \times \frac{1}{3} = \frac{1}{24}$$

$$15. \frac{2}{8} \times \frac{3}{4} = \frac{3}{16}$$

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Name _____ Date _____

Multiplying Fractions

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$$

$$2. \frac{3}{5} \times \frac{2}{9} = \frac{2}{15}$$

$$3. \frac{1}{6} \times \frac{4}{5} = \frac{2}{15}$$

$$4. \frac{2}{7} \times \frac{5}{8} = \frac{5}{28}$$

$$5. \frac{2}{5} \times \frac{4}{9} = \frac{8}{45}$$

$$6. \frac{1}{4} \times \frac{1}{6} = \frac{1}{24}$$

$$7. \frac{2}{3} \times \frac{3}{8} = \frac{1}{4}$$

$$8. \frac{3}{4} \times \frac{4}{7} = \frac{3}{7}$$

$$9. \frac{2}{5} \times \frac{5}{6} = \frac{1}{3}$$

$$10. \frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$$

$$11. \frac{1}{5} \times \frac{5}{6} = \frac{1}{6}$$

$$12. \frac{1}{2} \times \frac{3}{7} = \frac{3}{14}$$

$$13. \frac{2}{5} \times \frac{5}{9} = \frac{2}{9}$$

$$14. \frac{2}{8} \times \frac{3}{4} = \frac{1}{4}$$

$$15. \frac{5}{6} \times \frac{2}{7} = \frac{5}{21}$$

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Name _____ Date _____

Multiplying Fractions and Whole Numbers

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 4 \times \frac{1}{2} = 2$$

$$2. 2 \times \frac{2}{5} = \frac{4}{5}$$

$$3. 4 \times \frac{2}{7} = 1\frac{1}{7}$$

$$4. 3 \times \frac{5}{6} = 2\frac{1}{2}$$

$$5. 8 \times \frac{1}{8} = 1$$

$$6. \frac{2}{5} \times 3 = 1\frac{1}{5}$$

$$7. \frac{1}{8} \times 5 = \frac{5}{8}$$

$$8. \frac{5}{7} \times 5 = 3\frac{4}{7}$$

$$9. \frac{2}{3} \times 2 = 1\frac{1}{3}$$

$$10. \frac{3}{9} \times 4 = 1\frac{1}{3}$$

$$11. \frac{1}{3} \times 7 = 2\frac{1}{3}$$

$$12. 4 \times \frac{3}{4} = 3$$

$$13. \frac{6}{8} \times 2 = 1\frac{1}{2}$$

$$14. 5 \times \frac{4}{5} = 4$$

$$15. 8 \times \frac{2}{5} = 3\frac{1}{5}$$

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Name _____ Date _____

Multiplying Fractions and Whole Numbers

Total Problems: 15
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 5 \times \frac{2}{5} = 2$$

$$2. 8 \times \frac{1}{7} = 1\frac{1}{7}$$

$$3. 6 \times \frac{3}{8} = 2\frac{1}{4}$$

$$4. 4 \times \frac{8}{9} = 3\frac{5}{9}$$

$$5. 2 \times \frac{3}{7} = \frac{6}{7}$$

$$6. \frac{2}{3} \times 4 = 2\frac{2}{3}$$

$$7. \frac{1}{9} \times 6 = \frac{2}{3}$$

$$8. \frac{5}{6} \times 4 = 3\frac{1}{3}$$

$$9. \frac{4}{6} \times 3 = 2$$

$$10. \frac{4}{5} \times 6 = 4\frac{4}{5}$$

$$11. \frac{3}{4} \times 5 = 3\frac{3}{4}$$

$$12. 2 \times \frac{4}{5} = 1\frac{3}{5}$$

$$13. \frac{2}{7} \times 6 = 1\frac{5}{7}$$

$$14. 7 \times \frac{3}{5} = 4\frac{1}{5}$$

$$15. 9 \times \frac{3}{4} = 6\frac{3}{4}$$

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Answer Key

Name _____ Date _____

Multiplying Fractions and Whole Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 15
Problems Correct: _____

$$1. 10 \times \frac{2}{3} = 6\frac{2}{3} \quad 2. 4 \times \frac{4}{7} = 2\frac{2}{7} \quad 3. 7 \times \frac{10}{11} = 6\frac{4}{11}$$

$$4. 36 \times \frac{2}{288} = \frac{1}{4} \quad 5. 6 \times \frac{4}{8} = 3 \quad 6. 9 \times \frac{5}{6} = 7\frac{1}{2}$$

$$7. 3 \times \frac{1}{3} = 1 \quad 8. 30 \times \frac{3}{90} = 1 \quad 9. 12 \times \frac{1}{36} = \frac{1}{3}$$

$$10. 5 \times \frac{2}{5} = 2 \quad 11. 12 \times \frac{7}{8} = 10\frac{1}{2} \quad 12. 5 \times \frac{3}{4} = 3\frac{3}{4}$$

$$13. 22 \times \frac{1}{44} = \frac{1}{2} \quad 14. 4 \times \frac{1}{8} = \frac{1}{2} \quad 15. 11 \times \frac{3}{8} = 4\frac{1}{8}$$

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Name _____ Date _____

Multiplying Mixed Numbers and Whole Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

$$1. 2 \times 2\frac{1}{3} = 4\frac{2}{3} \quad 2. 3 \times 5\frac{1}{5} = 15\frac{3}{5} \quad 3. 9 \times 3\frac{2}{3} = 33$$

$$4. 8 \times 9\frac{1}{10} = 72\frac{4}{5} \quad 5. 4 \times 5\frac{1}{8} = 20\frac{1}{2} \quad 6. 6 \times 3\frac{1}{6} = 19$$

$$7. 5 \times 6\frac{5}{8} = 33\frac{1}{8} \quad 8. 3 \times 9\frac{1}{3} = 28 \quad 9. 7 \times 1\frac{3}{4} = 12\frac{1}{4}$$

$$10. 7 \times 2\frac{3}{5} = 18\frac{1}{5} \quad 11. 4 \times 2\frac{1}{2} = 10 \quad 12. 7 \times 2\frac{1}{7} = 15$$

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Name _____ Date _____

Multiplying Mixed Numbers and Whole Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

$$1. 4 \times 3\frac{3}{5} = 14\frac{2}{5} \quad 2. 6 \times 9\frac{4}{5} = 58\frac{4}{5} \quad 3. 2 \times 8\frac{3}{4} = 17\frac{1}{2}$$

$$4. 9 \times 1\frac{1}{18} = 9\frac{1}{2} \quad 5. 10 \times 5\frac{1}{2} = 55 \quad 6. 8 \times 2\frac{3}{8} = 19$$

$$7. 5 \times 4\frac{2}{5} = 22 \quad 8. 2 \times 7\frac{5}{8} = 15\frac{1}{4} \quad 9. 2 \times 5\frac{1}{8} = 10\frac{1}{4}$$

$$10. 3 \times 1\frac{15}{16} = 5\frac{13}{16} \quad 11. 4 \times 8\frac{6}{7} = 35\frac{3}{7} \quad 12. 2 \times 2\frac{1}{4} = 4\frac{1}{2}$$

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Name _____ Date _____

Multiplying Mixed Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

$$1. 3\frac{1}{2} \times 2\frac{1}{2} = 8\frac{3}{4} \quad 2. 8\frac{5}{8} \times 3\frac{6}{7} = 34\frac{1}{14} \quad 3. 4\frac{2}{5} \times 6\frac{2}{3} = 29\frac{1}{3}$$

$$4. 4\frac{2}{9} \times 5\frac{10}{11} = 24\frac{94}{99} \quad 5. 2\frac{2}{3} \times 4\frac{2}{5} = 11\frac{11}{15} \quad 6. 5\frac{3}{4} \times 6\frac{1}{4} = 35\frac{15}{16}$$

$$7. 2\frac{8}{9} \times 7\frac{7}{8} = 22\frac{3}{4} \quad 8. 7\frac{1}{4} \times 3\frac{3}{7} = 24\frac{6}{7} \quad 9. 6\frac{7}{8} \times 3\frac{1}{3} = 22\frac{11}{12}$$

$$10. 7\frac{9}{10} \times 8\frac{7}{8} = 70\frac{9}{80} \quad 11. 4\frac{1}{4} \times 3\frac{5}{6} = 16\frac{7}{24} \quad 12. 8\frac{3}{5} \times 1\frac{1}{2} = 12\frac{9}{10}$$

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Answer Key

Name _____ Date _____

Multiplying Mixed Numbers

Total Problems: 12

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 8\frac{1}{4} \times 6\frac{2}{3} = 55 \quad 2. 7\frac{2}{5} \times 9\frac{1}{8} = 67\frac{21}{40} \quad 3. 2\frac{5}{6} \times 12\frac{4}{5} = 36\frac{4}{15}$$

$$4. 4\frac{2}{7} \times 6\frac{1}{10} = 26\frac{1}{7} \quad 5. 2\frac{9}{10} \times 5\frac{7}{8} = 17\frac{3}{80} \quad 6. 5\frac{1}{3} \times 4\frac{1}{2} = 24$$

$$7. 3\frac{1}{3} \times 3\frac{1}{3} = 11\frac{1}{9} \quad 8. 3\frac{3}{4} \times 2\frac{1}{3} = 8\frac{3}{4} \quad 9. 5\frac{1}{5} \times 4\frac{1}{3} = 22\frac{8}{15}$$

$$10. 9\frac{9}{10} \times 4\frac{7}{8} = 48\frac{21}{80} \quad 11. 1\frac{10}{13} \times 2\frac{9}{13} = 4\frac{129}{169} \quad 12. 8\frac{3}{5} \times 4\frac{5}{6} = 41\frac{17}{30}$$

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Name _____ Date _____

Finding the Reciprocal

Total Problems: 16

Problems Correct: _____

Find the reciprocal of each fraction or whole number.

$$1. \frac{3}{5} \quad \frac{5}{3} \quad 2. \frac{2}{3} \quad \frac{3}{2} \quad 3. 9 \quad \frac{1}{9} \quad 4. \frac{5}{3} \quad \frac{3}{5}$$

$$5. \frac{7}{3} \quad \frac{3}{7} \quad 6. \frac{6}{3} \quad \frac{3}{6} \quad 7. \frac{1}{12} \quad 12 \quad 8. \frac{9}{10} \quad \frac{10}{9}$$

$$9. \frac{2}{17} \quad \frac{17}{2} \quad 10. \frac{9}{1} \quad \frac{1}{9} \quad 11. 6 \quad \frac{1}{6} \quad 12. \frac{4}{2} \quad \frac{2}{4}$$

Change each mixed number to an improper fraction. Then, find its reciprocal.

	Fraction	Reciprocal
13. $2\frac{3}{5} =$	$\frac{13}{5}$	$\frac{5}{13}$
14. $1\frac{3}{4} =$	$\frac{7}{4}$	$\frac{4}{7}$
15. $3\frac{7}{8} =$	$\frac{31}{8}$	$\frac{8}{31}$
16. $6\frac{2}{5} =$	$\frac{32}{5}$	$\frac{5}{32}$

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Name _____ Date _____

Dividing Fractions

Total Problems: 15

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. \frac{3}{5} \div \frac{5}{6} = \frac{18}{25} \quad 2. \frac{5}{8} \div \frac{3}{5} = 1\frac{1}{24} \quad 3. \frac{7}{10} \div \frac{3}{5} = 1\frac{1}{6}$$

$$4. \frac{4}{7} \div \frac{3}{7} = 1\frac{1}{3} \quad 5. \frac{3}{5} \div \frac{7}{8} = \frac{24}{35} \quad 6. \frac{3}{16} \div \frac{3}{8} = \frac{1}{2}$$

$$7. \frac{4}{9} \div \frac{3}{4} = \frac{16}{27} \quad 8. \frac{7}{8} \div \frac{2}{3} = 1\frac{5}{16} \quad 9. \frac{1}{6} \div \frac{4}{5} = \frac{5}{24}$$

$$10. \frac{3}{4} \div \frac{3}{5} = 1\frac{1}{4} \quad 11. \frac{7}{9} \div \frac{2}{3} = 1\frac{1}{6} \quad 12. \frac{7}{8} \div \frac{5}{11} = 1\frac{37}{40}$$

$$13. \frac{2}{5} \div \frac{3}{8} = 1\frac{1}{15} \quad 14. \frac{2}{3} \div \frac{4}{5} = \frac{5}{6} \quad 15. \frac{5}{9} \div \frac{2}{8} = 2\frac{2}{9}$$

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Name _____ Date _____

Dividing Fractions and Whole Numbers

Total Problems: 15

Problems Correct: _____

Solve each problem. Write each answer in simplest form.

$$1. 8 \div \frac{6}{7} = 9\frac{1}{3} \quad 2. 3 \div \frac{1}{2} = 6 \quad 3. 12 \div \frac{3}{4} = 16$$

$$4. 14 \div \frac{7}{8} = 16 \quad 5. 5 \div \frac{1}{3} = 15 \quad 6. \frac{5}{6} \div 10 = \frac{1}{12}$$

$$7. \frac{2}{3} \div 6 = \frac{1}{9} \quad 8. \frac{3}{4} \div 4 = \frac{3}{16} \quad 9. \frac{1}{2} \div 6 = \frac{1}{12}$$

$$10. \frac{1}{4} \div 2 = \frac{1}{8} \quad 11. \frac{2}{5} \div 3 = \frac{2}{15} \quad 12. 10 \div \frac{6}{7} = 11\frac{2}{3}$$

$$13. \frac{4}{7} \div 5 = \frac{4}{35} \quad 14. 6 \div \frac{1}{5} = 30 \quad 15. 12 \div \frac{3}{9} = 36$$

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Answer Key

Name _____ Date _____

Dividing Fractions and Mixed Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

1. $1\frac{1}{6} \div \frac{1}{4} = 4\frac{2}{3}$

2. $3\frac{1}{4} \div \frac{3}{8} = 8\frac{2}{3}$

3. $5\frac{2}{3} \div \frac{9}{10} = 6\frac{8}{27}$

4. $1\frac{4}{5} \div \frac{2}{7} = 6\frac{3}{10}$

5. $2\frac{3}{4} \div \frac{1}{8} = 22$

6. $2\frac{1}{2} \div \frac{1}{2} = 5$

7. $2\frac{1}{4} \div \frac{3}{8} = 6$

8. $4\frac{1}{2} \div \frac{1}{2} = 9$

9. $6\frac{1}{8} \div \frac{4}{7} = 10\frac{23}{32}$

10. $2\frac{3}{4} \div \frac{1}{2} = 5\frac{1}{2}$

11. $1\frac{1}{4} \div \frac{2}{3} = 1\frac{7}{8}$

12. $1\frac{2}{5} \div \frac{1}{3} = 4\frac{1}{5}$

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Name _____ Date _____

Dividing Fractions and Mixed Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

1. $1\frac{1}{6} \div \frac{1}{4} = 4\frac{2}{3}$

2. $2\frac{2}{5} \div \frac{2}{3} = 3\frac{3}{5}$

3. $6\frac{3}{8} \div \frac{7}{10} = 9\frac{3}{28}$

4. $1\frac{1}{3} \div \frac{7}{8} = 1\frac{11}{21}$

5. $3\frac{1}{2} \div \frac{1}{4} = 14$

6. $5\frac{1}{3} \div \frac{3}{8} = 14\frac{2}{9}$

7. $3\frac{1}{3} \div \frac{3}{4} = 4\frac{4}{9}$

8. $2\frac{1}{3} \div 5 = \frac{7}{15}$

9. $1\frac{1}{3} \div \frac{8}{3} = \frac{1}{2}$

10. $3\frac{3}{5} \div 10 = \frac{9}{25}$

11. $1\frac{1}{5} \div \frac{2}{5} = 3$

12. $5\frac{6}{7} \div \frac{3}{4} = 7\frac{17}{21}$

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Name _____ Date _____

Dividing Mixed Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

1. $2\frac{1}{3} \div 4\frac{1}{5} = \frac{5}{9}$

2. $5\frac{1}{2} \div 1\frac{1}{8} = 4\frac{8}{9}$

3. $3\frac{1}{3} \div 1\frac{1}{9} = 3$

4. $2\frac{2}{3} \div 2\frac{2}{5} = 1\frac{1}{9}$

5. $5\frac{1}{4} \div 2\frac{1}{3} = 2\frac{1}{4}$

6. $7\frac{3}{8} \div 1\frac{5}{8} = 4\frac{7}{13}$

7. $5\frac{2}{3} \div 1\frac{6}{7} = 3\frac{2}{39}$

8. $2\frac{2}{5} \div 3\frac{7}{10} = \frac{24}{37}$

9. $6\frac{1}{3} \div 3\frac{5}{6} = 1\frac{15}{23}$

10. $6\frac{3}{8} \div 2\frac{5}{6} = 2\frac{1}{4}$

11. $7\frac{1}{9} \div 5\frac{1}{3} = 1\frac{1}{3}$

12. $7\frac{2}{5} \div 5\frac{2}{3} = 1\frac{26}{85}$

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Name _____ Date _____

Dividing Mixed Numbers

Solve each problem. Write each answer in simplest form.

Total Problems: 12
Problems Correct: _____

1. $8\frac{3}{4} \div 5\frac{2}{5} = 1\frac{67}{108}$

2. $9\frac{3}{5} \div 8\frac{2}{3} = 1\frac{7}{65}$

3. $3\frac{1}{3} \div 5\frac{3}{5} = \frac{25}{42}$

4. $1\frac{3}{7} \div 2\frac{2}{3} = \frac{15}{28}$

5. $1\frac{3}{5} \div 2\frac{1}{2} = \frac{16}{25}$

6. $2\frac{1}{5} \div 1\frac{3}{4} = 1\frac{9}{35}$

7. $2\frac{1}{2} \div 3\frac{8}{9} = \frac{9}{14}$

8. $4\frac{2}{3} \div 5\frac{9}{10} = \frac{140}{177}$

9. $3\frac{3}{5} \div 3\frac{3}{4} = \frac{24}{25}$

10. $5\frac{2}{5} \div 6\frac{5}{8} = \frac{216}{265}$

11. $6\frac{3}{4} \div 2\frac{5}{8} = 2\frac{4}{7}$

12. $4\frac{3}{8} \div 3\frac{3}{5} = 1\frac{31}{144}$

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Answer Key

Name _____ Date _____

Multiplying and Dividing Fractions Review

Total Problems: 12
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $1\frac{1}{3} \div 2\frac{1}{2} = \frac{8}{15}$ 2. $6\frac{7}{8} \div 1\frac{1}{3} = 5\frac{5}{32}$ 3. $3\frac{1}{5} \times 2\frac{1}{10} = 6\frac{18}{25}$

4. $1\frac{4}{5} \times 3\frac{5}{5} = 7\frac{1}{5}$ 5. $1\frac{4}{5} \div 1\frac{1}{5} = 1\frac{1}{2}$ 6. $2\frac{1}{2} \div 1\frac{1}{2} = 1\frac{2}{3}$

7. $2\frac{1}{3} \times 3\frac{1}{3} = 7\frac{7}{9}$ 8. $4\frac{2}{6} \times 3\frac{7}{18} = 14\frac{37}{54}$ 9. $2\frac{3}{5} \div 1\frac{1}{2} = 3\frac{9}{10}$

10. $4\frac{1}{2} \div 1\frac{1}{5} = 3\frac{3}{4}$ 11. $3\frac{3}{4} \times 2\frac{2}{6} = 8\frac{3}{4}$ 12. $3\frac{3}{8} \div 3\frac{3}{8} = 1$

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Name _____ Date _____

Multiplying and Dividing Fractions Review

Total Problems: 12
Problems Correct: _____

Solve each problem. Write each answer in simplest form.

1. $3\frac{1}{3} \div 1\frac{1}{2} = 2\frac{2}{9}$ 2. $5\frac{1}{2} \div 1\frac{1}{4} = 4\frac{2}{5}$ 3. $2\frac{1}{6} \times 1\frac{1}{12} = 2\frac{25}{72}$

4. $2\frac{3}{6} \times 4\frac{5}{10} = 11\frac{1}{4}$ 5. $2\frac{3}{5} \div 2\frac{1}{5} = 1\frac{2}{11}$ 6. $2\frac{1}{4} \times 1\frac{1}{4} = 2\frac{13}{16}$

7. $3\frac{2}{4} \div 1\frac{1}{5} = 2\frac{11}{12}$ 8. $2\frac{2}{8} \times 4\frac{5}{16} = 9\frac{45}{64}$ 9. $3\frac{1}{2} \times 3\frac{1}{2} = 12\frac{1}{4}$

10. $4\frac{1}{6} \div 1\frac{1}{6} = 3\frac{4}{7}$ 11. $2\frac{3}{5} \div 1\frac{2}{5} = 1\frac{6}{7}$ 12. $3\frac{3}{5} \times 3\frac{3}{5} = 12\frac{24}{25}$

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Name _____ Date _____

Understanding Decimals

Total Problems: 11
Problems Correct: _____

Complete the chart. Fill in the whole number, tenths, hundredths, and thousandths columns with the correct number. Use zeros as placeholders where necessary.

	Number	Whole Number	Tenths	Hundredths	Thousandths
1.	3.751	3	7	5	1
2.	4.891	4	8	9	1
3.	1.608	1	6	0	8
4.	10.540	10	5	4	0
5.	9.618	9	6	1	8
6.	2.198	2	1	9	8
7.	0.208	0	2	0	8
8.	0.005	0	0	0	5
9.	1.7	1	7		
10.	2.398	2	3	9	8
11.	6.0	6	0		

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Name _____ Date _____

Understanding Decimals

Total Problems: 16
Problems Correct: _____

Write a decimal for each of the following descriptions.

1. One tenth 0.1 2. Twenty-seven hundredths 0.27
3. Three thousandths 0.003 4. Seven tenths 0.7
5. Forty-five hundredths 0.45 6. Fifty-one thousandths 0.051

Write each decimal in words.

7. 0.047 Forty-seven thousandths
8. 0.99 Ninety-nine hundredths
9. 0.8 Eight tenths
10. 0.809 Eight hundred nine thousandths
11. 0.06 Six hundredths

Order the numbers in each series from smallest to largest.

12. 1.871, 0.1871, 10.871 0.1871, 1.871, 10.871
13. 0.045, 0.45, 0.04 0.04, 0.045, 0.45
14. 0.0065, 0.06, 0.006 0.006, 0.0065, 0.06
15. 0.91, 0.44, 0.23 0.23, 0.44, 0.91
16. 6.07, 6.17, 6.37 6.07, 6.17, 6.37

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Answer Key

Name _____ Date _____

Writing Decimals as Fractions

Write each decimal as a fraction. Write the answer in simplest form.

Total Problems: 16
Problems Correct: _____

1. $0.25 = \frac{1}{4}$ 2. $0.15 = \frac{3}{20}$ 3. $0.035 = \frac{7}{200}$ 4. $0.17 = \frac{17}{100}$

5. $0.75 = \frac{3}{4}$ 6. $0.30 = \frac{3}{10}$ 7. $0.125 = \frac{1}{8}$ 8. $0.50 = \frac{1}{2}$

9. $0.033 = \frac{33}{1000}$ 10. $0.075 = \frac{3}{40}$ 11. $0.60 = \frac{3}{5}$ 12. $0.018 = \frac{9}{500}$

13. $0.6 = \frac{3}{5}$ 14. $0.025 = \frac{1}{40}$ 15. $0.185 = \frac{37}{200}$ 16. $0.611 = \frac{611}{1000}$

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Name _____ Date _____

Writing Decimals as Fractions

Write each decimal as a fraction. Write the answer in simplest form.

Total Problems: 16
Problems Correct: _____

1. $0.625 = \frac{5}{8}$ 2. $0.008 = \frac{1}{125}$ 3. $0.60 = \frac{3}{5}$ 4. $0.23 = \frac{23}{100}$

5. $0.020 = \frac{1}{50}$ 6. $0.054 = \frac{27}{500}$ 7. $0.075 = \frac{3}{40}$ 8. $0.001 = \frac{1}{1000}$

9. $0.100 = \frac{1}{10}$ 10. $0.012 = \frac{3}{250}$ 11. $0.033 = \frac{33}{1000}$ 12. $0.12 = \frac{3}{25}$

13. $0.03 = \frac{3}{100}$ 14. $0.219 = \frac{219}{1000}$ 15. $0.575 = \frac{23}{40}$ 16. $0.35 = \frac{7}{20}$

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Name _____ Date _____

Writing Decimals as Fractions

Write each decimal as a fraction. Write the answer in simplest form.

Total Problems: 16
Problems Correct: _____

1. $0.5 = \frac{1}{2}$ 2. $0.05 = \frac{1}{20}$ 3. $0.075 = \frac{3}{40}$ 4. $0.12 = \frac{3}{25}$

5. $0.333 = \frac{333}{1000}$ 6. $0.25 = \frac{1}{4}$ 7. $0.15 = \frac{3}{20}$ 8. $0.54 = \frac{27}{50}$

9. $0.1 = \frac{1}{10}$ 10. $0.08 = \frac{2}{25}$ 11. $0.125 = \frac{1}{8}$ 12. $0.2 = \frac{1}{5}$

13. $0.8 = \frac{4}{5}$ 14. $0.143 = \frac{143}{1000}$ 15. $0.625 = \frac{5}{8}$ 16. $0.025 = \frac{1}{40}$

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Name _____ Date _____

Writing Decimals as Fractions

Write each decimal as a fraction or mixed number. Write the answer in simplest form.

Total Problems: 16
Problems Correct: _____

1. $0.009 = \frac{9}{1000}$ 2. $0.41 = \frac{41}{100}$ 3. $3.5 = 3\frac{1}{2}$ 4. $4.014 = 4\frac{7}{500}$

5. $0.019 = \frac{19}{1000}$ 6. $0.15 = \frac{3}{20}$ 7. $4.03 = 4\frac{3}{100}$ 8. $0.5 = \frac{1}{2}$

9. $0.933 = \frac{933}{1000}$ 10. $0.183 = \frac{183}{1000}$ 11. $2.62 = 2\frac{31}{50}$ 12. $0.09 = \frac{9}{100}$

13. $0.3 = \frac{3}{10}$ 14. $0.025 = \frac{1}{40}$ 15. $3.25 = 3\frac{1}{4}$ 16. $6.17 = 6\frac{17}{100}$

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Answer Key

Writing Fractions as Decimals

Write each fraction or mixed number as a decimal.

1. $\frac{6}{10} = 0.6$ 2. $\frac{3}{10} = 0.3$ 3. $3\frac{8}{10} = 3.8$
4. $\frac{15}{1,000} = 0.015$ 5. $\frac{7}{100} = 0.07$ 6. $\frac{4}{100} = 0.04$
7. $2\frac{9}{10} = 2.9$ 8. $\frac{8}{1,000} = 0.008$ 9. $\frac{27}{100} = 0.27$
10. $\frac{50}{100} = 0.50$ 11. $\frac{142}{1,000} = 0.142$ 12. $\frac{7}{100} = 0.07$

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Writing Fractions as Decimals

Write each fraction or mixed number as a decimal. Round to the nearest thousandth when necessary.

1. $5\frac{7}{8} = 5.875$ 2. $\frac{47}{50} = 0.94$ 3. $\frac{1}{2} = 0.5$ 4. $\frac{9}{200} = 0.045$
5. $3\frac{4}{5} = 3.8$ 6. $\frac{3}{8} = 0.375$ 7. $\frac{1}{5} = 0.2$ 8. $\frac{7}{25} = 0.28$
9. $4\frac{3}{5} = 4.6$ 10. $\frac{3}{4} = 0.75$ 11. $\frac{1}{4} = 0.25$ 12. $\frac{7}{20} = 0.35$
13. $2\frac{1}{5} = 2.2$ 14. $\frac{1}{8} = 0.125$ 15. $\frac{1}{3} = 0.333$ 16. $\frac{4}{5} = 0.8$

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Adding Decimals

Solve each problem.

1. $\begin{array}{r} 2.4 \\ +1.7 \\ \hline 4.1 \end{array}$ 2. $\begin{array}{r} 18.6 \\ +9.5 \\ \hline 28.1 \end{array}$ 3. $\begin{array}{r} 0.01 \\ +0.72 \\ \hline 0.73 \end{array}$ 4. $\begin{array}{r} 3.2 \\ +7.8 \\ \hline 12.4 \end{array}$ 5. $\begin{array}{r} 2.016 \\ 3.094 \\ +8.627 \\ \hline 13.737 \end{array}$
6. $\begin{array}{r} 8.1 \\ +9.2 \\ \hline 17.3 \end{array}$ 7. $\begin{array}{r} 14.3 \\ +1.9 \\ \hline 16.2 \end{array}$ 8. $\begin{array}{r} 1.04 \\ +2.07 \\ \hline 3.11 \end{array}$ 9. $\begin{array}{r} 86.7 \\ +5.2 \\ \hline 100.3 \end{array}$ 10. $\begin{array}{r} 42.65 \\ 67.23 \\ +12.12 \\ \hline 122 \end{array}$
11. $\begin{array}{r} 10.3 \\ +7.4 \\ \hline 17.7 \end{array}$ 12. $\begin{array}{r} 24.7 \\ +32.6 \\ \hline 57.3 \end{array}$ 13. $\begin{array}{r} 16.52 \\ +13.63 \\ \hline 30.15 \end{array}$ 14. $\begin{array}{r} 9.1 \\ 12.5 \\ +19.4 \\ \hline 41 \end{array}$ 15. $\begin{array}{r} 492.6 \\ 382.3 \\ +225.7 \\ \hline 1,100.6 \end{array}$
16. $\begin{array}{r} 1.5 \\ +1.5 \\ \hline 3.0 \end{array}$ 17. $\begin{array}{r} 20.5 \\ +32.3 \\ \hline 52.8 \end{array}$ 18. $\begin{array}{r} 14.87 \\ +56.09 \\ \hline 70.96 \end{array}$ 19. $\begin{array}{r} 40.08 \\ 60.27 \\ +50.33 \\ \hline 150.68 \end{array}$ 20. $\begin{array}{r} 4.008 \\ 1.318 \\ +0.056 \\ \hline 5.382 \end{array}$

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Name _____ Date _____

Adding Decimals

Solve each problem.

1. $\begin{array}{r} 2.34 \\ 0.02 \\ +1.65 \\ \hline 4.01 \end{array}$ 2. $\begin{array}{r} 543.7 \\ 3.42 \\ +0.06 \\ \hline 547.18 \end{array}$ 3. $\begin{array}{r} 72.56 \\ 12.38 \\ +0.07 \\ \hline 85.01 \end{array}$ 4. $\begin{array}{r} 22.87 \\ 45.7 \\ +1.26 \\ \hline 69.83 \end{array}$
5. $\begin{array}{r} 987.5 \\ 4.1 \\ +30.2 \\ \hline 1,021.8 \end{array}$ 6. $\begin{array}{r} 2.14 \\ 23.75 \\ +72.4 \\ \hline 74.547 \end{array}$ 7. $\begin{array}{r} 1.70 \\ 23.75 \\ +0.605 \\ \hline 26.055 \end{array}$ 8. $\begin{array}{r} 86.15 \\ 0.07 \\ +5.72 \\ \hline 91.94 \end{array}$
9. $\begin{array}{r} 5.1 \\ 7.53 \\ +87.4 \\ \hline 100.03 \end{array}$ 10. $\begin{array}{r} 0.2 \\ 1.2 \\ +0.12 \\ \hline 1.52 \end{array}$ 11. $\begin{array}{r} 1.45 \\ 20.03 \\ +0.17 \\ \hline 21.65 \end{array}$ 12. $\begin{array}{r} 4.5 \\ 5.4 \\ +12.67 \\ \hline 22.57 \end{array}$
13. $\begin{array}{r} 42.7 \\ 0.03 \\ +1.7 \\ \hline 44.43 \end{array}$ 14. $\begin{array}{r} 87.5 \\ 1.2 \\ +591.35 \\ \hline 680.05 \end{array}$ 15. $\begin{array}{r} 0.725 \\ 1.33 \\ +12 \\ \hline 14.055 \end{array}$ 16. $\begin{array}{r} 42 \\ 0.543 \\ +7.8 \\ \hline 50.343 \end{array}$

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Answer Key

Name _____ Date _____

Subtracting Decimals

Total Problems: 20
Problems Correct: _____

Solve each problem.

$$\begin{array}{r} 1. \quad 0.8 \\ - 0.4 \\ \hline 0.4 \end{array}$$

$$\begin{array}{r} 2. \quad 0.47 \\ - 0.21 \\ \hline 0.26 \end{array}$$

$$\begin{array}{r} 3. \quad 0.753 \\ - 0.211 \\ \hline 0.542 \end{array}$$

$$\begin{array}{r} 4. \quad 4.6 \\ - 2.1 \\ \hline 2.5 \end{array}$$

$$\begin{array}{r} 5. \quad 42.53 \\ - 0.25 \\ \hline 42.28 \end{array}$$

$$\begin{array}{r} 6. \quad 0.9 \\ - 0.5 \\ \hline 0.4 \end{array}$$

$$\begin{array}{r} 7. \quad 0.53 \\ - 0.27 \\ \hline 0.26 \end{array}$$

$$\begin{array}{r} 8. \quad 0.867 \\ - 0.501 \\ \hline 0.366 \end{array}$$

$$\begin{array}{r} 9. \quad 5.6 \\ - 0.2 \\ \hline 5.4 \end{array}$$

$$\begin{array}{r} 10. \quad 87.54 \\ - 6.25 \\ \hline 81.29 \end{array}$$

$$\begin{array}{r} 11. \quad 0.3 \\ - 0.1 \\ \hline 0.2 \end{array}$$

$$\begin{array}{r} 12. \quad 0.37 \\ - 0.15 \\ \hline 0.22 \end{array}$$

$$\begin{array}{r} 13. \quad 0.467 \\ - 0.338 \\ \hline 0.129 \end{array}$$

$$\begin{array}{r} 14. \quad 37.6 \\ - 0.7 \\ \hline 36.9 \end{array}$$

$$\begin{array}{r} 15. \quad 95.43 \\ - 16.07 \\ \hline 79.36 \end{array}$$

$$\begin{array}{r} 16. \quad 0.5 \\ - 0.2 \\ \hline 0.3 \end{array}$$

$$\begin{array}{r} 17. \quad 0.42 \\ - 0.12 \\ \hline 0.3 \end{array}$$

$$\begin{array}{r} 18. \quad 0.575 \\ - 0.104 \\ \hline 0.471 \end{array}$$

$$\begin{array}{r} 19. \quad 25.06 \\ - 3.72 \\ \hline 21.34 \end{array}$$

$$\begin{array}{r} 20. \quad 53.27 \\ - 5.42 \\ \hline 47.85 \end{array}$$

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Name _____ Date _____

Subtracting Decimals

Total Problems: 16
Problems Correct: _____

Solve each problem.

$$\begin{array}{r} 1. \quad 19.867 \\ - 1.07 \\ \hline 18.797 \end{array}$$

$$\begin{array}{r} 2. \quad 4.52 \\ - 0.4 \\ \hline 4.12 \end{array}$$

$$\begin{array}{r} 3. \quad 6.254 \\ - 3.01 \\ \hline 3.244 \end{array}$$

$$\begin{array}{r} 4. \quad 23.154 \\ - 3.08 \\ \hline 20.074 \end{array}$$

$$\begin{array}{r} 5. \quad 0.7 \\ - 0.506 \\ \hline 0.194 \end{array}$$

$$\begin{array}{r} 6. \quad 20.342 \\ - 0.37 \\ \hline 19.972 \end{array}$$

$$\begin{array}{r} 7. \quad 756.83 \\ - 22.5 \\ \hline 734.33 \end{array}$$

$$\begin{array}{r} 8. \quad 38.7 \\ - 5.21 \\ \hline 33.49 \end{array}$$

$$\begin{array}{r} 9. \quad 1.428 \\ - 1.2 \\ \hline 0.228 \end{array}$$

$$\begin{array}{r} 10. \quad 71.34 \\ - 2.672 \\ \hline 68.668 \end{array}$$

$$\begin{array}{r} 11. \quad 31.1 \\ - 3.052 \\ \hline 28.048 \end{array}$$

$$\begin{array}{r} 12. \quad 0.65 \\ - 0.224 \\ \hline 0.426 \end{array}$$

$$\begin{array}{r} 13. \quad 2.3 \\ - 1.437 \\ \hline 0.863 \end{array}$$

$$\begin{array}{r} 14. \quad 32.456 \\ - 1.2 \\ \hline 31.256 \end{array}$$

$$\begin{array}{r} 15. \quad 81.384 \\ - 2.777 \\ \hline 78.607 \end{array}$$

$$\begin{array}{r} 16. \quad 24.75 \\ - 6.243 \\ \hline 18.507 \end{array}$$

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Name _____ Date _____

Multiplying Decimals

Total Problems: 20
Problems Correct: _____

Solve each problem. Round to the nearest thousandth when necessary.

$$\begin{array}{r} 1. \quad 0.2 \\ \times 4 \\ \hline 0.8 \end{array}$$

$$\begin{array}{r} 2. \quad 0.08 \\ \times 6 \\ \hline 0.48 \end{array}$$

$$\begin{array}{r} 3. \quad 5.7 \\ \times 0.9 \\ \hline 5.13 \end{array}$$

$$\begin{array}{r} 4. \quad 0.14 \\ \times 0.27 \\ \hline 0.038 \end{array}$$

$$\begin{array}{r} 5. \quad 0.67 \\ \times 5.4 \\ \hline 3.618 \end{array}$$

$$\begin{array}{r} 6. \quad 0.8 \\ \times 3 \\ \hline 2.4 \end{array}$$

$$\begin{array}{r} 7. \quad 0.04 \\ \times 5 \\ \hline 0.2 \end{array}$$

$$\begin{array}{r} 8. \quad 4.3 \\ \times 2 \\ \hline 8.6 \end{array}$$

$$\begin{array}{r} 9. \quad 7.2 \\ \times 5.3 \\ \hline 38.16 \end{array}$$

$$\begin{array}{r} 10. \quad 7.1 \\ \times 5.5 \\ \hline 39.05 \end{array}$$

$$\begin{array}{r} 11. \quad 0.5 \\ \times 0.4 \\ \hline 0.2 \end{array}$$

$$\begin{array}{r} 12. \quad 6 \\ \times 0.12 \\ \hline 0.72 \end{array}$$

$$\begin{array}{r} 13. \quad 1.07 \\ \times 0.55 \\ \hline 0.589 \end{array}$$

$$\begin{array}{r} 14. \quad 0.09 \\ \times 0.06 \\ \hline 0.005 \end{array}$$

$$\begin{array}{r} 15. \quad 0.07 \\ \times 0.15 \\ \hline 0.011 \end{array}$$

$$\begin{array}{r} 16. \quad 0.23 \\ \times 0.7 \\ \hline 0.161 \end{array}$$

$$\begin{array}{r} 17. \quad 0.5 \\ \times 0.25 \\ \hline 0.125 \end{array}$$

$$\begin{array}{r} 18. \quad 2.15 \\ \times 0.8 \\ \hline 1.72 \end{array}$$

$$\begin{array}{r} 19. \quad 1.3 \\ \times 3.1 \\ \hline 4.03 \end{array}$$

$$\begin{array}{r} 20. \quad 32 \\ \times 6.4 \\ \hline 204.8 \end{array}$$

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Name _____ Date _____

Multiplying Decimals

Total Problems: 16
Problems Correct: _____

Solve each problem. Round to the nearest thousandth when necessary.

$$\begin{array}{r} 1. \quad 0.187 \\ \times 1.5 \\ \hline 0.281 \end{array}$$

$$\begin{array}{r} 2. \quad 0.156 \\ \times 100 \\ \hline 15.6 \end{array}$$

$$\begin{array}{r} 3. \quad 0.0708 \\ \times 0.42 \\ \hline 0.03 \end{array}$$

$$\begin{array}{r} 4. \quad 87.859 \\ \times 63.4 \\ \hline 5,570.261 \end{array}$$

$$\begin{array}{r} 5. \quad 1.709 \\ \times 536.7 \\ \hline 917.22 \end{array}$$

$$\begin{array}{r} 6. \quad 6.42 \\ \times 3.7 \\ \hline 23.754 \end{array}$$

$$\begin{array}{r} 7. \quad 0.487 \\ \times 13.5 \\ \hline 6.575 \end{array}$$

$$\begin{array}{r} 8. \quad 0.1065 \\ \times 53.7 \\ \hline 5.719 \end{array}$$

$$\begin{array}{r} 9. \quad 4.06 \\ \times 0.7 \\ \hline 2.842 \end{array}$$

$$\begin{array}{r} 10. \quad 43.6 \\ \times 64.7 \\ \hline 2,820.92 \end{array}$$

$$\begin{array}{r} 11. \quad 80.42 \\ \times 7.86 \\ \hline 632.101 \end{array}$$

$$\begin{array}{r} 12. \quad 0.622 \\ \times 5.97 \\ \hline 3.713 \end{array}$$

$$\begin{array}{r} 13. \quad 84.4 \\ \times 0.007 \\ \hline 0.591 \end{array}$$

$$\begin{array}{r} 14. \quad 5.11 \\ \times 0.78 \\ \hline 3.986 \end{array}$$

$$\begin{array}{r} 15. \quad 4.35 \\ \times 0.692 \\ \hline 2.967 \end{array}$$

$$\begin{array}{r} 16. \quad 3.187 \\ \times 0.78 \\ \hline 2.486 \end{array}$$

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Thinking skill: Identifying patterns and relationships

Strategy: Look for a pattern

10. 9.78 11. 5.00 or 5
12. 16.8 13. 15.5
14. 21.6

Chapter 9

Lesson 9.1

1. 9; 36; 3.6 2. 15; 45; 4.5
3. 8; 40; 0.40 4. 27; 162; 1.62
5. 36; 252; 2.52 6. 4.8
7. 24.5 8. 35.1 9. 26.1 10. 27.6
11. 37.0 12. 73.6 13. 0.42 14. 0.63
15. 42.88 16. 28.16 17. 22.90 18. 33.84
19. 75.24

Lesson 9.2

1. 48.5 2. 3.75
3. 492.8 4. 230
5. 10 6. 66.22
7. 100 8. 4.03
9. 1,000 10. 0.108
11. 10; 100; 1,000
12. 401.6; 40.16; 4.016
13. 6; 5.724; 57.24
14. 8; 3.008; 300.8
15. 3; 2.91; 2,910
16. 25 17. 112
18. 4,770 19. 43,716
20. $0.085 \text{ kg} \times 200 + 0.56 \text{ kg} = 17.56 \text{ kg}$
The total mass of the box and
200 paperweights is 17.56 kilograms.

Lesson 9.3

1. 8; 4; 0.4 2. 24; 6; 0.6
3. 9; 3; 0.03 4. 63; 9; 0.09
5. 153; 17; 0.17 6. 2.3
7. 3.7 8. 3.2
9. 0.06 10. 11.33
11. 5.88 12. 0.8
13. 0.7 14. 2.59
15. 2.08

Lesson 9.4

1. 0.236 2. 3.015 3. 5.082
4. 2.1 5. 0.78 6. 82.3
7. 10 8. 345 9. 100
10. 6,920 11. 1,000
12. 48,000
13. 10; 1,990; 19,900
14. 82.35; 100; 1,000
15. 40.1; 401; 4,010
16. 10; 100; 1,000
17. 2; 149; 14.9
18. 8; 4; 0.04 19. 6; 200; 0.2
20. 7.5 21. 0.81
22. 0.092 23. 0.64
24. 0.35 25. 2.08
26. $125 \text{ L} \div 500 = 0.25 \text{ L}$
0.25 liter of apple juice is in each cup.
27. $370 \text{ m} \div 2,000 = 0.185 \text{ m}$
The length of each cut piece of string is
0.185 meter.
28. Cost of 1 file = $\$97.50 \div 30$
= \$3.25
Cost of 1 book = $\$3.25 \times 10$
= \$32.50
The cost of each book is \$32.50.
29. Cost of 10 pears and 10 oranges
= $\$0.94 \times 10 = \9.40
Cost of 1 orange = $\$10.05 - \9.40
= \$0.65
The cost of 1 orange was \$0.65.

Lesson 9.5

1. \$16 2. \$70
3. \$80 4. \$70
5. 50 6. 320
7. 270 8. 7
9. 11 10. 24
11. 23.1 km 12. 4.3 kg
13. 68.4 kg 14. 1.2 L
15. $\$4.95 \times 4 \approx \$5 \times 4 = \$20$
The cost of 4 tins is about \$20.
16. $175 \text{ cm} \div 18.5 \text{ cm} \approx 180 \text{ cm} \div 20 \text{ cm} = 9$
Vivien uses her handspan 9 times to measure
the length.