

7th Grade Math Prep

Name _____

Fractions

Add, subtract, multiply, or divide the following. Be sure your answer is in simplest form. *Show ALL of your work!!*

$$\begin{array}{r} 1. \ 4\frac{3}{4} \\ + 2\frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \ 8\frac{1}{6} \\ + 6\frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \ 9\frac{3}{5} \\ + 2\frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \ 3\frac{2}{3} \\ + 9\frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \ 7\frac{2}{3} \\ - 1\frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \ 3\frac{1}{8} \\ - 1\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \ 4\frac{1}{6} \\ - 1\frac{1}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \ 13\frac{1}{7} \\ - 3\frac{1}{2} \\ \hline \end{array}$$

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

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

$$11. \ 4\frac{2}{5} \times 1\frac{3}{7}$$

$$12. \ 7\frac{1}{2} \times 1\frac{5}{6}$$

$$13. \ 2\frac{2}{3} \div 6\frac{1}{2}$$

$$14. \ 9\frac{3}{7} \div 4\frac{1}{2}$$

$$15. \ 5\frac{1}{10} \div 4\frac{1}{2}$$

$$16. \ 3\frac{3}{4} \div 1\frac{1}{4}$$

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Signed Numbers

Use your signed number rules to solve the following problems.

1. $(-7) + (-6) + 5 + (-3)$

2. $(-2) + 0 + 9 + (-4) + 3$

3. $(-8) + 9 + (-11) + 8$

4. $(-3) - (-13) - 4$

5. $1 - 7 - 9 - (-4)$

6. $4 - (-9) - 16$

7. $(-5)(-4)(-3)$

8. $(-4)(11)(-9)$

9. $(-5)(-6)(2)(-3)$

10. $150 \div (-6)$

11. $\frac{(-5)(15)}{(-25)}$

12. $\frac{(-10)(-3)(2)}{(-5)}$

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Solving Equations

Directions: Show line-by-line solution to solve each equation.

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1. $3x + 14 = 35$

2. $7y - 10 = 11$

3. $1.2 = 2.4 - 3m$

4. $9x - 2 = 79$

5. $3x + 48 = 6$

6. $4k - 6 = -134$

7. $9x + 4x = 26$

8. $14y - 6y = 48$

9. $16x - 3x = -52$

10. $15m + 4 - 9m = -32$

11. $9 + 4(x + 1) = 25$

12. $3w - 9 - 8w = 11$