

MORE EXPRESSIONS

Name: _____

Class: _____

Date: _____

Write an algebraic expression for each of the following word expressions. When the directions call for “a number”, use x . When the directions call for “another number”, use y .

1. the sum of a number and 7 _____
2. the difference of 8 and a number _____
3. the quotient of a number and -5 _____
4. the product of 13 and a number _____
5. twice a number _____
6. 7 more than the product of 5 and a number _____
7. 4 less than a number _____
8. 9 less than the product of 3 and a number _____
9. 5 times the sum of a number and seven _____
10. the quotient of a number and another number _____
11. the sum of 9 and twice a number _____
12. half of a number _____
13. 5 less than half a number _____
14. the difference of a number and 6 _____
15. the sum of the square of a number and 9 _____
16. the square of the difference of a number and 4 _____

Order of Operations Review

Name: _____

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Simplify the following problems:

1. $7 \cdot 3 + 5$

2. $8 \div 4 + 3^3$

3. $2(12 - 4 \cdot 2) + 4$

4. $4(9 + 3) + 10 \div 2$

5. $24 \div 3 + 7(9 + 1) - 4$

6. $\frac{12}{3} + 5 \cdot 4^2 - 2(12 - 5)$

7. $\frac{20}{3+2} + 9 \cdot 2 \div 3$

8. $\frac{4+24}{7} + 5^2 - 27 \div 9$

9. $3^2 + 8 - 16 \div 4^2 \cdot 2$

10. $5(19 - 3^2) + 5 \cdot 3 - 7$

Lesson 10 Division

$$3\frac{3}{8} \div 1\frac{1}{2} = \frac{27}{8} \div \frac{3}{2}$$

Change $3\frac{3}{8}$ and $1\frac{1}{2}$ to fractions.

$$= \frac{27}{8} \times \frac{2}{3}$$

Multiply by the reciprocal of $\frac{3}{2}$.

$$= \frac{9}{4} \text{ or } 2\frac{1}{4}$$

Write $\frac{9}{4}$ as a mixed numeral in simplest form.

Write each answer in simplest form.

a

 1. $\frac{7}{10} \div \frac{14}{15}$

b

 $2\frac{2}{3} \div \frac{2}{3}$

c

 $\frac{2}{3} \div 2\frac{2}{3}$

d

 $5 \div 1\frac{1}{4}$

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

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

$1\frac{2}{5} \div 1\frac{2}{7}$

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

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

$1\frac{1}{8} \div \frac{5}{6}$

$1\frac{3}{7} \div \frac{5}{7}$

$\frac{1}{2} \div 1\frac{1}{4}$

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

$1\frac{7}{8} \div 1\frac{1}{4}$

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

$5\frac{3}{5} \div 2\frac{1}{10}$

Perfect score: 16

My score: _____