

Learning Objective: Students will be able to write and evaluate an expression written in words.

Warm Up

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

7. $\frac{13}{8} \times \frac{4}{7}$

11. $\frac{23}{3} \times \frac{1}{8}$

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

8. $\frac{3}{5} \times \frac{13}{8}$

12. $\frac{3}{4} \times \frac{1}{4}$

Learning Objective: Students will be able to write and evaluate an expression written in words.

Warm Up Answers

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

$$7. \frac{13}{8} \times \frac{4}{7} \\ = \frac{13}{14}$$

$$11. \frac{23}{3} \times \frac{1}{8} \\ = \frac{23}{24}$$

$$4. \frac{5}{4} \times \frac{3}{4} \\ = \frac{15}{16}$$

$$8. \frac{3}{5} \times \frac{13}{8} \\ = \frac{39}{40}$$

$$12. \frac{3}{4} \times \frac{1}{4} \\ = \frac{3}{16}$$

Lesson 3.1

November 17, 2014

Essential Question:

How can you write and evaluate an expression that represents a real-life problem?

Lesson 3.1

November 17, 2014

Lesson Objective:

Students will be able to:

write and evaluate an expression written in words.

Self-Evaluation Scale

Score	Description
4	I can teach other students how to write and evaluate an expression written in words.
3	I can write and evaluate an expression written in words.
2	I recognize, but still need help to write and evaluate an expression written in words.
1	I do not know how to write and evaluate an expression written in words.

Learning Objective: Students will be able to write and evaluate an expression written in words.

Activity 1 & 2

Follow along with Activities 1 & 2 on pages 57 & 58 of your Big Ideas Record and Practice Journal.

Novemeber 17, 2014 Lesson 3.1 Period 3

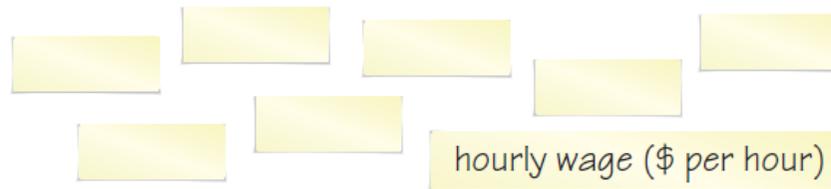
Learning Objective: Students will be able to write and evaluate an expression written in words.

- a. You babysit for 3 hours. You receive \$12. What is your hourly wage?
- Write the problem. Underline the important numbers and units you need to solve the problem.
 - Read the problem carefully a second time. Circle the key word for the question.



You babysit for 3 hours. You receive \$12.
What is your hourly wage?

- Write each important number or word, with its units, on a piece of paper. Write +, -, ×, ÷, and = on five other pieces of paper.



- Arrange the pieces of paper to answer the key word question, “What is your hourly wage?”
- Evaluate the expression that represents the hourly wage.

$$\begin{aligned} \text{hourly wage} &= \square \div \square && \text{Write.} \\ &= \square && \text{Evaluate.} \end{aligned}$$

❖ So, your hourly wage is \$ \square per hour.

- b. How can you use your hourly wage to find how much you will receive for any number of hours worked?

Novemeber 17, 2014 Lesson 3.1 Period 3

Learning Objective: Students will be able to write and evaluate an expression written in words.

- a. You wash cars for 2 hours. You receive \$6. How much do you earn per hour?



- b. You have \$60. You buy a pair of jeans and a shirt. The pair of jeans costs \$27. You come home with \$15. How much did you spend on the shirt?

- c. For lunch, you buy 5 sandwiches that cost \$3 each. How much do you spend?



- d. You are running a 4500-foot race. How much farther do you have to go after running 2000 feet?

- e. A young rattlesnake grows at a rate of about 20 centimeters per year. How much does a young rattlesnake grow in 2 years?



Learning Objective: Students will be able to write and evaluate an expression written in words.

Algebraic Expression

Expression that contains numbers, operations,
and one or more symbol.

Learning Objective: Students will be able to write and evaluate an expression written in words.

Terms

Part of an algebraic expression

Learning Objective: Students will be able to write and evaluate an expression written in words.

0

i

Variable

Symbol that represents one or more numbers

Learning Objective: Students will be able to write and evaluate an expression written in words.

Coefficient

The numerical factor of a term that contains a variable

Learning Objective: Students will be able to write and evaluate an expression written in words.

Constant

A term without a variable

Learning Objective: Students will be able to write and evaluate an expression written in words.

1

Identifying Parts of an Algebraic Expression

Identify the terms, coefficients, and constants in each expression.

a. $5x + 13$

$$\begin{array}{l} 5x + 13 \\ \underbrace{\quad} \quad \underbrace{\quad} \\ \text{Terms: } 5x, \quad 13 \\ \text{Coefficient: } 5 \qquad \qquad \qquad \downarrow \\ \text{Constant: } \qquad \qquad \qquad 13 \end{array}$$

b. $2z^2 + y + 3$

$$\begin{array}{l} 2z^2 + y + 3 \\ \underbrace{\quad} \quad \underbrace{\quad} \quad \underbrace{\quad} \\ \text{Terms: } 2z^2, \quad 1y, \quad 3 \\ \text{Coefficients: } 2, \quad 1 \qquad \qquad \qquad \downarrow \\ \text{Constant: } \qquad \qquad \qquad 3 \end{array}$$

$$6x + 44$$

terms: $6x$, 44

Coeff: 6

Constants: 44

Variables: x

$$3z + 7y + 10w + 4$$

Terms: $3z$, $7y$, $10w$, 4

Coeff: 3 , 7 , 10

Variables: z , y , w

Constants: 4