

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

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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 4, 2015

Essential Question:

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

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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.

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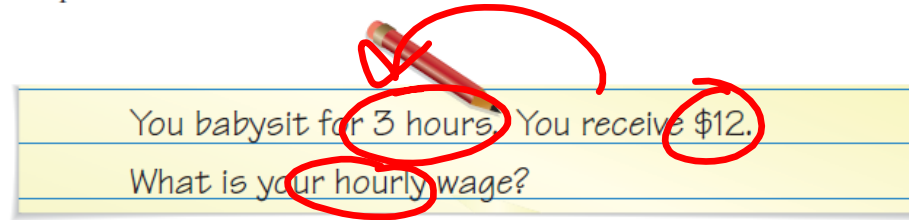
Activity 1 & 2

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

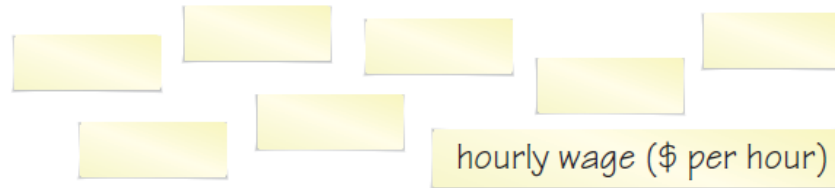
November 4, 2015 TPA Lesson 3.1

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.



- 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.

$$\begin{aligned} \text{hourly wage} &= 12 \div 3 && \text{Write.} \\ &= 4 && \text{Evaluate.} \end{aligned}$$

❖ So, your hourly wage is \$ 4 per hour.

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

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

- 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?



$$60 = 27 + 15 + S$$

$$60 = 42 + S$$

$$18 = S$$



Shift rest of

$$S + 5 - S = 5$$

$$S + X = 5$$

$$2 + 2 = 4$$

$$2 + 2 = X$$

$$8 \cdot 4 = X$$

$$X = 32$$

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Algebraic Expression

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

Terms

Part of an algebraic expression

Separated by Plus and/or
minus signs

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Variable

Symbol that represents one or more numbers

Coefficient

The numerical factor of a term that contains a variable

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Constant

A term without a variable