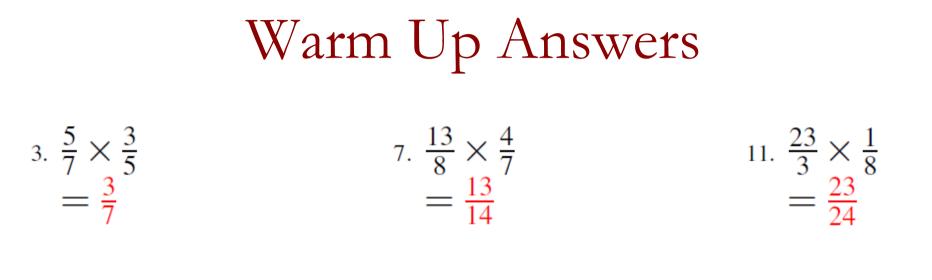
Learning Objective: Students will be able to write and evaluate an expression written in words.

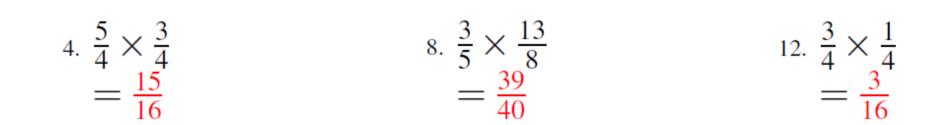
Warm Up

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.





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

Lesson 3.1

November 5, 2015

Essential Question:

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

Lesson 3.1

November 5, 2015

Lesson Objective:

Students will be able to:

write and evaluate an expression written in words.

Self-Evaluation Scale

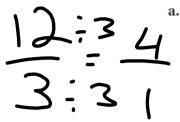
Score	Description
4	I can teach other students how to write and evaluate an expression written in words.
3	I can write and evaluate an expression written in words.
2	I recognize, but still need help to write and evaluate an expression written in words.
1	I do not know how to write and evaluate an expression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

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

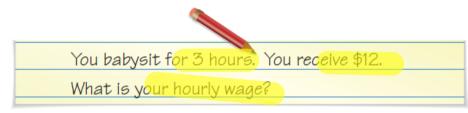
Activity 1 & 2

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

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.



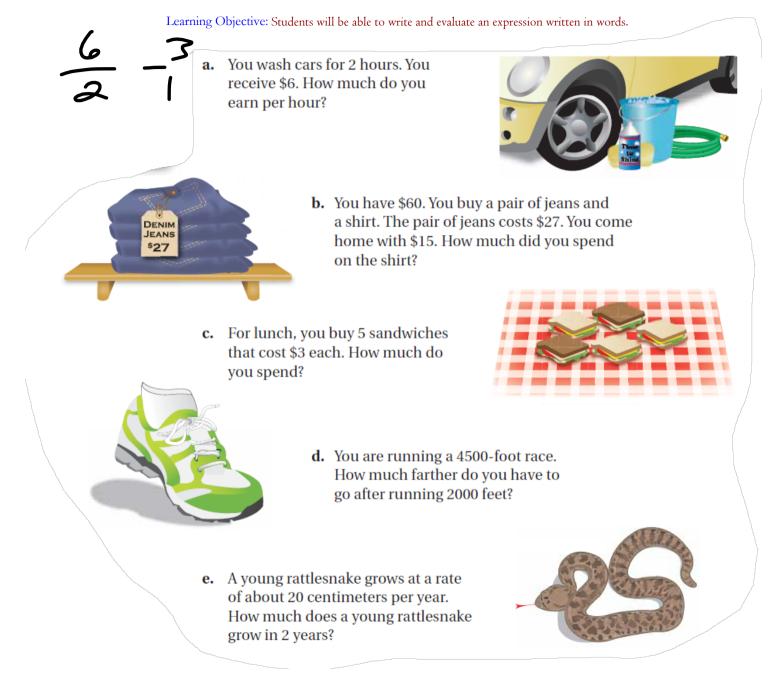
• Write each important number or word, with its units, on a piece of paper. Write +, -, ×, ÷, and = on five other pieces of paper.



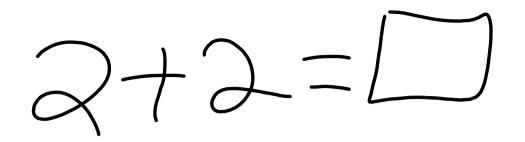
- Arrange the pieces of paper to answer the key word question, "What is your hourly wage?"
- Evaluate the expression that represents the hourly wage.



- So, your hourly wage is \$ per hour.
- **b.** How can you use your hourly wage to find how much you will receive for any number of hours worked?



60=27+15+5LD = Lla + S-18 -- S **∦∖**ନ



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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.

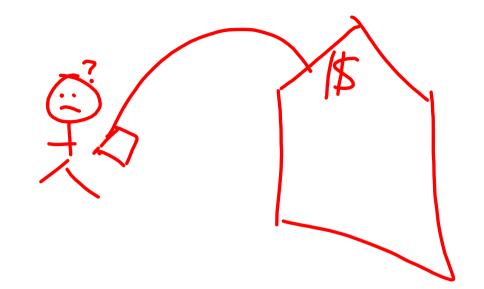
Learning Objective: Students will be able to write and evaluate an expression written in words.

Terms

Part of an algebraic expression

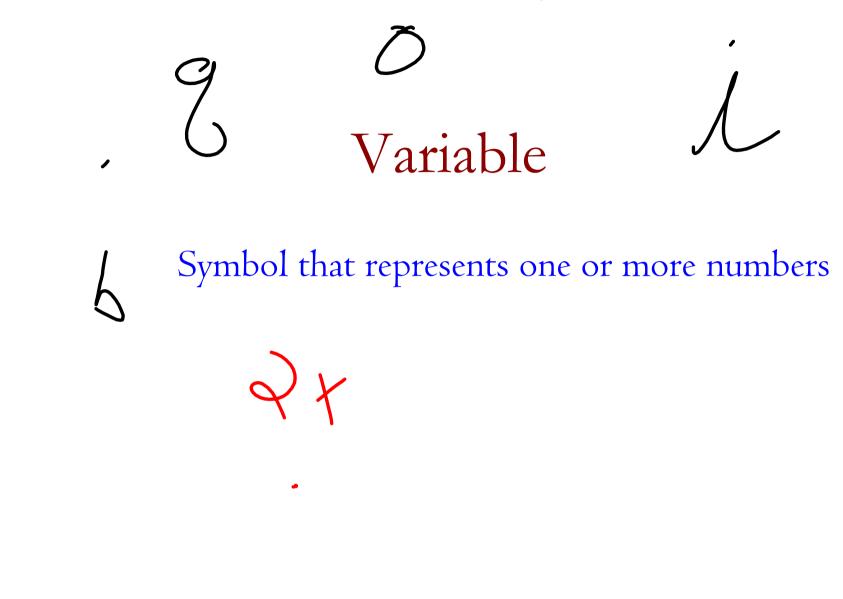
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Learning Objective: Students will be able to write and evaluate an expression written in words.



1-16 $\sqrt{16} = 4, -4$ $\sqrt{36} = 6, -6$

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

Coefficient

The numerical <u>factor</u> of a term that contains a variable

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

Constant

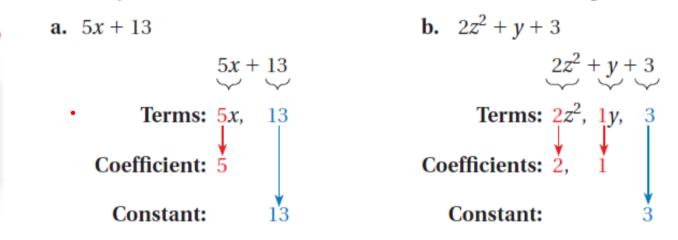
A term without a variable

9

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

Identifying Parts of an Algebraic Expression

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



Z2 # Z

2

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



Writing Algebraic Expressions Using Exponents

Write each expression using exponents.

a. $d \cdot d \cdot d \cdot d$

Because *d* is used as a factor 4 times, its exponent is 4.

So,
$$d \cdot d \cdot d \cdot d = d^4$$
.

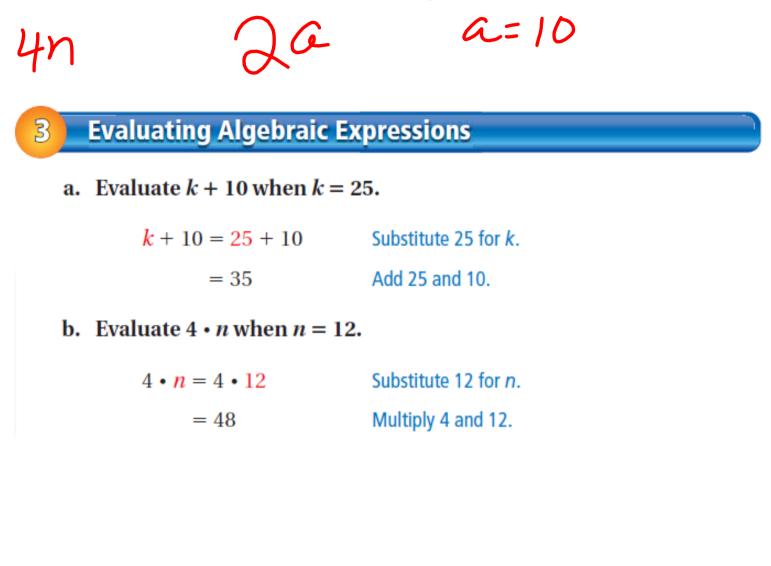
b. 1.5 • *h* • *h* • *h*

Because h is used as a factor 3 times, its exponent is 3.

So,
$$1.5 \cdot h \cdot h \cdot h = 1.5h^3$$
.

4+4+4-4 h + h + -Zh

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



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



Evaluate $a \div b$ when a = 16 and $b = \frac{2}{3}$. $a \div b = 16 \div \frac{2}{3}$ Substitute 16 for a and $\frac{2}{3}$ for b. $= 16 \cdot \frac{3}{8}$ Multiply by the reciprocal of $\frac{2}{3}$, which is $\frac{3}{2}$. = 24 Multiply. 5

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

Evaluating Expressions with Two Operations

a. Evaluate 3x - 14 when x = 5.

3x - 14 = 3(5) - 14	Substitute 5 for <i>x</i> .
= 15 - 14	Using order of operations, multiply 3 and 5.
= 1	Subtract 14 from 15.

b. Evaluate $z^2 + 8.5$ when z = 2.

$z^2 + 8.5 = 2^2 + 8.5$	Substitute 2 for z.
= 4 + 8.5	Using order of operations, evaluate 2 ² .
= 12.5	Add 4 and 8.5.

18 - 3X

X=2

18:3.2 6.2

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

Assignment

Complete problems 8, 12, 16, 20, 26, 30, 34, 36, 44, 46, 50, & 52 on pages 115 - 117 in your Big Ideas Text Book.

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

Homework

In your Big Ideas Record and Practice Journal page 🚑.