

Learning Objective: Students will be able to write an algebraic expression that represented a verbal phrase.

Warm Up

1. $\frac{1}{10} + \frac{13}{18}$

5. $\frac{7}{13} + \frac{1}{5}$

9. $\frac{5}{8} + \frac{2}{7}$

2. $\frac{3}{16} + \frac{1}{6}$

6. $\frac{7}{20} + \frac{11}{20}$

10. $\frac{4}{15} + \frac{3}{5}$

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Warm Up Answers

$$1. \frac{1}{10} + \frac{13}{18} \\ = \frac{37}{45}$$

$$5. \frac{7}{13} + \frac{1}{5} \\ = \frac{48}{65}$$

$$9. \frac{5}{8} + \frac{2}{7} \\ = \frac{51}{56}$$

$$2. \frac{3}{16} + \frac{1}{6} \\ = \frac{17}{48}$$

$$6. \frac{7}{20} + \frac{11}{20} \\ = \frac{9}{10}$$

$$10. \frac{4}{15} + \frac{3}{5} \\ = \frac{13}{15}$$

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Homework Answers

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3.1 Record and Practice Journal

Evaluate the expression when $a = 4$, $b = 5$, and $c = 10$.

1. $a + 7$

11

2. $b - 3$

2

3. $9c$

90

4. $25 + b$

5

5. $a \cdot c$

40

6. $b - a$

1

7. $a + b + c$

19

8. $\frac{c}{b}$

2

9. $4a - 7$

9

10. You need $2b$ cups of flour for making b loaves of bread. You have 8 cups of flour. Do you have enough for 5 loaves of bread? Explain.

no; five loaves of bread requires 10 cups of flour. You only have 8 cups of flour.

11. The expression $9a + 6s$ is the cost for a adults and s students to see a musical performance.

- a. Find the total cost for three adults and five students.

\$57

- b. Find the total cost for four adults and four students.

\$60

Lesson 3.2

November 19, 2014

Essential Question:

How can you write an expression that represents an unknown quantity?

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Self-Evaluation Scale

Score	Description
4	I can teach other students how to write an algebraic expression that represented a verbal phrase.
3	I can write an algebraic expression that represented a verbal phrase.
2	I recognize, but still need help to write an algebraic expression that represented a verbal phrase.
1	I do not know how to write an algebraic expression that represented a verbal phrase.

Novemeber 19, 2014 Lesson 3.2 Period 3

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a. Complete the table.

Variable	Phrase	Expression
n	4 more than a number	$n+4 ; 4+n$
m	the <u>difference</u> of a number and 3	$m-3$
x	the sum of a number and 8	$x+8 ; 8+x$
p	10 less than a number	$p-10$
n	7 units farther away	$7+n ; n+7$
t	8 minutes sooner	$t-8$
w	12 minutes later	$12+w ; w+12$
y	a number increased by 9	$y+9 ; 9+y$

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Some words that imply math operations

Operation	Addition	Subtraction	Multiplication	Division
Key Words and Phrases	added to plus sum of more than increased by total of and	subtracted from minus difference of less than decreased by fewer than take away	multiplied by times product of twice of	divided by quotient of

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Writing Numerical Expressions

Write the phrase as an expression.

a. 8 fewer than 21

$21 - 8$

The phrase *fewer than* means *subtraction*.

b. the product of 30 and 9

30×9 , or $30 \cdot 9$

The phrase *product of* means *multiplication*.

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