November 6, 2015 TPA Lesson 3.2

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

Warm Up

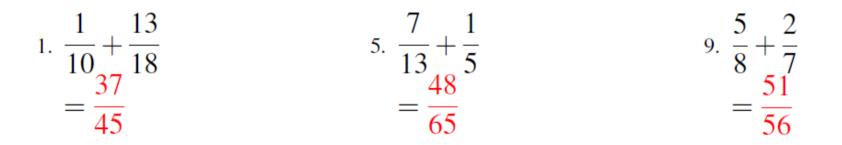
1.
$$\frac{1}{10} + \frac{13}{18}$$
 5. $\frac{7}{13} + \frac{1}{5}$ 9. $\frac{5}{8} + \frac{2}{7}$

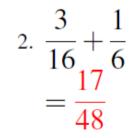
2.
$$\frac{3}{16} + \frac{1}{6}$$
 6. $\frac{7}{20} + \frac{11}{20}$ 10. $\frac{4}{15} + \frac{3}{5}$

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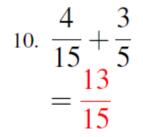
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Warm Up Answers





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



Homework Answers

3.1 Record and Practice Journal



Evaluate the expressio	n when a = 4, b = 5, a	nd c = 10.	
1. <i>a</i> + 7	2 . <i>b</i> – 3	3. 9c	١
11	2	90	\ \
4. 25 ÷ <i>b</i>	5. a • c	6. $b - a$	\
5	40	1	
7. a+b+c 19	8. $\frac{c}{b}$ 2	9. 4 <i>a</i> - 7 9	
of flour. Do you ha	we enough for 5 loaves of	s of bread. You have 8 cups bread? Explain. Equires 10 cups	
	ou only have 8		
 The expression 9a musical performan 	+ $6s$ is the cost for <i>a</i> adult ce.	ts and s students to see a	

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

\$57

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

\$60

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November 3, 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.

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a. Complete the table.

Variable	Phrase	Expression
n	4 more than a number	4+7
m	the difference of a number and 3	M-3
x	the <mark>sum</mark> of a number and 8	X+8
р	10 less than a number	P-10
n	7 units <mark>farther</mark> away	ή+7
t	8 minutes sooner	七-8
w	12 minutes <mark>later</mark>	h/+12~
у	a number <mark>increased</mark> by 9	Y +9

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 Our of

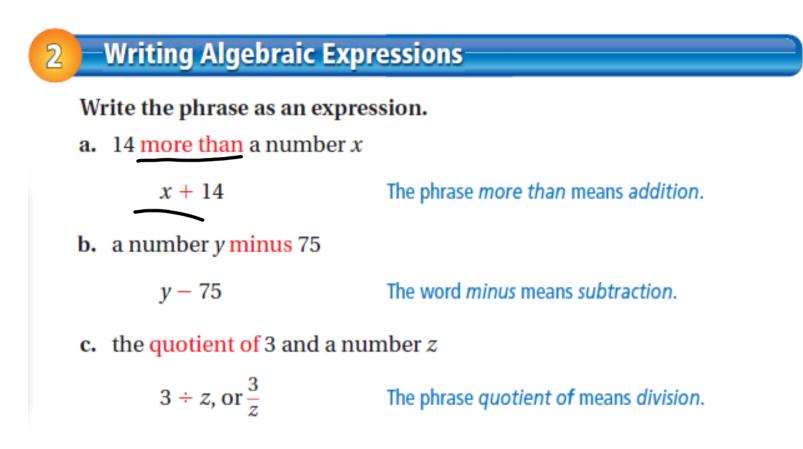
9

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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.



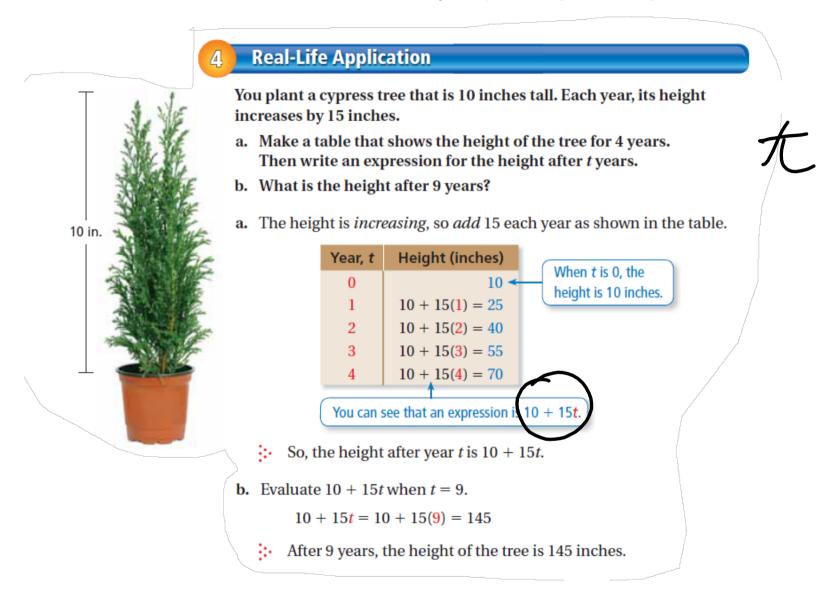
Writing an Algebraic Expression

The length of Interstate 90 from the West Coast to the East Coast is 153.5 miles more than 2 times the length of Interstate 15 from southern California to northern Montana. Let *m* be the length of Interstate 15. Which expression can you use to represent the length

A
$$2m + 153.5$$
 B $2m - 153.5$ C $153.5 - 2m$ D $153.5m + 2$
The word times means
multiplication. So, multiply 2 and m.
 $2m + 153.5 \leftarrow$ The phrase more than means
addition. So, add $2m$ and 153.5 .

The correct answer is (A).

1535+ 2m M



Assignment

Complete problems 8, 12, 16, 20, 26, 28, 30, & 34 on pages 122 - 123 in your Big Ideas Text Book.

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Homework

In your Big Ideas Record and Practice Journal page 64.