Chapter 7	Equations and Inequalities
Date:	7.1 Writing Equations in One Variable
Essential Question	How does rewriting a word problem help you solve the word problem?

Vocab

Word	Definition	Examples
expression	a mathematical sentence without an answer	$4 + 7$ $3y - 8$
equation	a mathematical sentence that uses an equal sign (=) to show that two expressions are equal	$12 = 20 - 8$ $3 \times 8 = 4 \times 6$ $5(2m - 6) = 70$

1) The sum of a number n and 7 is 15.

$n + 7 = 15$

2) 4 less than a number y is 3.

$y - 4 = 3$

3) 48 is 12 times a number p.

$48 = 12p$

Complete numbers 1 - 4 on your notes page.

1) 9 less than a number b equals 2.

$b - 9 = 2$

2) The quotient of a number q and 4 is 12.

$q \div 4 = 12$

3) The product of a number g and 5 is 30.

$g \cdot 5 = 30$

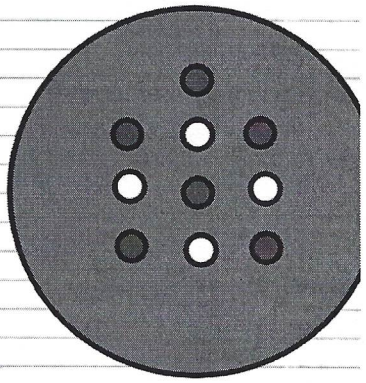
4) A number k increased by 10 is the same as 24.

$k + 10 = 24$

Complete number 4 in your composition book.
~~Ten servers~~ decorate 25 tables ~~for a wedding~~.
Each table is decorated with 6 blue candles and 4 white candles. Let c be the total number of whit and blue candles needed for all the tables. Which equation can be used to find how many candles will be needed?

Cross off information you don't need

Draw a picture to help you visualize.



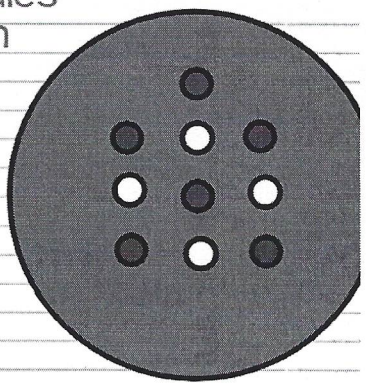
A.) $c = 25 + (4 + 6)$
B.) $c = 25 + (4 \times 6)$
C.) $c = 25(4 + 6)$
D.) $c = 25(4 \times 6)$

Complete number 4 in your composition book.

~~Ten servers~~ decorate 25 tables ~~for a wedding~~. Each table is decorated with 6 blue candles and 4 white candles. Let c be the total number of whit and blue candles needed for all the tables. Which equation can be used to find how many candles will be needed?

. Use words to help you form an equation

total number of candles | is | total tables | the number of candles on each table



Write your own equation and compare it to the answer choices.

A.) $c = 25 + (4 + 6)$

B.) $c = 25 + (4 \times 6)$

C.) $c = 25(4 + 6)$

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