Date
------

## Warm-Up

Grade 4 <sup>th</sup> CST # 47	Review:
Which number is represented by <i>n</i> ?	Prime factor 20 three different ways.
$8 \times n = 128$	
A 13	
B 14	
C 16	
D 19	
Current:	Other:
What number goes in the box to make	
this number sentence true?	35 + 6 = 35 +
54 + = 71	

Today's Objective/Standards: 4AF1.1, 4AF1.5\*

<b>Fopic:</b> <u>Solving O</u>	ne-Step Equation	ns Usıng Bar l	Models	Date:	
Гехt Chapter/Sec	ction:				
Warm-up:					
Choose students t	to debrief on w	hite board or	overheads to	o share with tl	ne class.
Review Homewor	rk Notes:				

Note:

Lesson: Relate the Bar

Model method to decomposition.

Ex1) or 7 + m = 107 + m = 7 + 3m = 3

,	7 + <i>m</i>	= 10
	7	m
	10	
	7	m

$$\therefore m = 3$$

7

You-try: (Think/Pair/Share)

1)

x	5
7	5

$$\therefore x = 7$$

Note: Point out the zero pairs and refer to the Identity Property of Multiplication.

Ex2)

$$9 - m = 6$$

$$6 + m = 9$$

$$6 \qquad m$$

$$9$$

6	m
6	3

$$\therefore m = 3$$

9 - m = 6

$$9 + (-m) = 6$$

$$9 - m$$

$$6$$

$$^{-}m = ^{-}3$$

$$\therefore m = 3$$

You-try: (Think/Pair/Share) or

$$2)_{16-m=11}$$

$$11+m=16$$

$$\therefore m = 5$$

3)

16 - m = 11
$16 + \left(-m\right) = 11$

16	- <i>m</i>
11€5	-5

$$^{-}m = ^{-}5$$

$$\therefore m = 5$$

You-try: (Think/Pair/Share)

Ex3)

$$m-3=4$$
 or  $m-3=4$   $m+(-3)=4$   $m+(-3)=4$   $m$ 

$$\therefore m = 7$$

m-3	= 4
m+(-3)	
m	-3
4	

m	-3	
4€3	-3	
∴ <i>m</i> = 7		

y - 6 = 44 + 6 = y6 4 y

$$\therefore y = 10$$

y - 6 = 4y + (-6) = 4<sup>-</sup>6\_ 4

ν	-6
4 (+ 6	-6

$$\therefore y = 10$$

## **Lesson continued:**

Ex 4)

$$4v = 12$$

$$| v | v | v | v | = 4v$$

$$3 | 3 | 3 | 3 | = 12$$

$$v = 3$$
"If four v's equal 12, then what does one v equal?"
$$| 3 | (3) | = 12 | (3) |$$

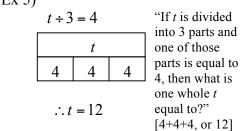
You-try: (Think/Pair/Share)

4)

$$5m = 20$$

$$\boxed{\begin{array}{c|c|c|c} m & m & m & m \\ \hline 4 & 4 & 4 & 4 \\ \hline & \vdots & m = 4 \\ \end{array}} = 5m$$

Ex 5)



You-try: (Think/Pair/Share)

5)

## **Additional Practice Problems:**

1) 
$$12 - m = 5$$

2) 
$$6 + n = 11$$

3) 
$$n-9=13$$

3) 
$$n-9=13$$
 4)  $c+15=17$ 

5) 
$$4x = 8$$

6) 
$$14 \div s = 2$$

5) 
$$4x = 8$$
 6)  $14 \div s = 2$  7)  $y \times 5 = 15$  8)  $t \div 3 = 8$ 

8) 
$$t \div 3 = 8$$

## **Homework:**