

Date _____

Warm-Up

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

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

Topic: Solving One-Step Equations Using Bar Models **Date:** _____

Text Chapter/Section: _____

Warm-up:

Choose students to debrief on white board or overheads to share with the class.

Review Homework Notes:

Note:

Lesson: Relate the Bar Model method to decomposition.

Ex1)

$$7 + m = 10$$

$$7 + m = 7 + 3$$

$$m = 3$$

or

$$7 + m = 10$$

7	m
10	

7	m
7	3

$$\therefore m = 3$$

You-try: (Think/Pair/Share)

1)

$$x + 5 = 12$$

x	5
12	

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	m
9	

6	m
6	3

$$\therefore m = 3$$

or

$$9 - m = 6$$

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

9	$-m$
6	

9	$-m$
6 + 3	-3

$$-m = -3$$

$$\therefore m = 3$$

You-try: (Think/Pair/Share)

2)

$$16 - m = 11$$

$$11 + m = 16$$

11	m
16	

11	m
11	5

$$\therefore m = 5$$

or

$$16 - m = 11$$

$$16 + (-m) = 11$$

16	$-m$
11	

16	$-m$
11 + 5	-5

$$-m = -5$$

$$\therefore m = 5$$

Ex3)

$$m - 3 = 4$$

$$4 + 3 = m$$

4	3
m	

$$\therefore m = 7$$

or

$$m - 3 = 4$$

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

m	-3
4	

m	-3
4 + 3	-3

$$\therefore m = 7$$

You-try: (Think/Pair/Share)

3)

$$y - 6 = 4$$

$$4 + 6 = y$$

4	6
y	

$$\therefore y = 10$$

or

$$y - 6 = 4$$

$$y + (-6) = 4$$

y	-6
4	

y	-6
4 + 6	-6

$$\therefore y = 10$$

Lesson continued:

Ex 4)

$$4v = 12$$

v	v	v	v
3	3	3	3

$$= 4v$$

$$= 12$$

$$\therefore v = 3$$

“If four v ’s equal 12, then what does one v equal?”
[3]

You-try: (Think/Pair/Share)

4)

$$5m = 20$$

m	m	m	m	m
4	4	4	4	4

$$= 5m$$

$$= 20$$

$$\therefore m = 4$$

Ex 5)

$$t \div 3 = 4$$

t		
4	4	4

$$\therefore t = 12$$

“If t is divided into 3 parts and one of those parts is equal to 4, then what is one whole t equal to?”
[4+4+4, or 12]

You-try: (Think/Pair/Share)

5)

$$z \div 4 = 7$$

z			
7	7	7	7

$$\therefore z = 28$$

Additional Practice Problems:

1) $12 - m = 5$

2) $6 + n = 11$

3) $n - 9 = 13$

4) $c + 15 = 17$

5) $4x = 8$

6) $14 \div s = 2$

7) $y \times 5 = 15$

8) $t \div 3 = 8$

Homework: