

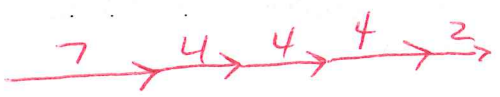
Name: Answers Date: _____ Period: _____

Lesson 3.1.1 Homework Problems 3-7 to 3-11

7. Consider the expression $7 + 3 \cdot 4 + 2$.

1. What movements does this represent for Cecil walking on his tightrope? Draw a diagram to show his movements and the length of his walk.

Diagram: (Remember we use arrows when drawing our diagrams!)



$$7 + 3(4) + 2$$

$$7 + 12 + 2$$

$$\textcircled{21}$$

2. How many different answers can you get by grouping differently? ****SHOW ALL WORK****

Add parentheses to the expression $7 + 3 \cdot 4 + 2$ to create new expressions with as many different values as possible.

New expression 1: $(7+3) \cdot (4+2)$ Answer: 60

$10 \cdot 6$
 $\textcircled{60}$

New expression 2: $7 + (3 \cdot 4) + 2$ Answer: 21

$7 + (12) + 2$
 $\textcircled{21}$

New expression 3: $(7+3) \cdot 4 + 2$ Answer: 42

$10 \cdot 4 + 2$
 $40 + 2$
 $\textcircled{42}$

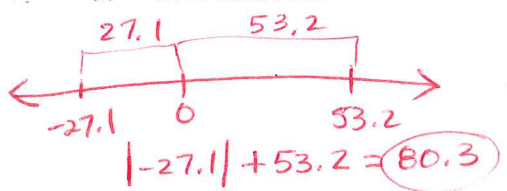
New expression 4: $7 + 3 \cdot (4+2)$ Answer: 25

$7 + 3(6)$
 $7 + 18$
 $\textcircled{25}$

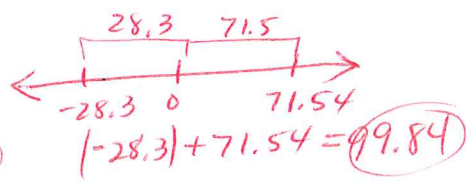
New expression 5: _____ Answer: _____
CREATE ONE ON YOUR OWN for #5

3-8. Find the distance between each pair of points if they were graphed on a number line. Represent your work using absolute value symbols.

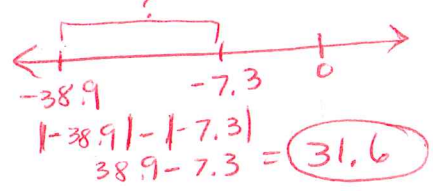
1. -27.1 and 53.2



2. 71.54 and -28.3



3. -38.9 and -7.3





3-9. Find the missing information from the following relationships. ***SHOW ALL WORK***

1. Mark has downloaded four times as many songs on his music player as Chloe. If Mark has 440 songs, how many songs does Chloe have? Mark = 440 songs which is 4 times as many as Chloe.
- $4 \cdot x = 440$
 $x = 110$ Chloe = x
 (Chloe has 110 songs)

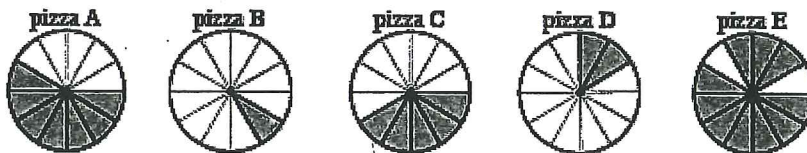
2. Cici likes to collect shoes, but she only has half the number of pairs of shoes that her friend Aubree has. If Cici has 42 pairs of shoes, how many pairs of shoes does Aubree have?

Cici = 42 pairs
 Aubree = 2 times Cici
 Aubree = $2 \cdot 42$
 Aubree = 84 pairs
 Cici has $\frac{1}{2}$ as many as Aubree.
 Aubree has 84.

3. Tito walked three more miles than Danielle. If Danielle walked 2 miles, how far did Tito walk?

Danielle = 2 miles
 Tito = 3 more than Danielle
 $T = 3 + 2$
 $T = 5$ miles
 Tito walked 5 miles

3-10. After a pizza party, Julia has parts of five pizzas left over, as shown below. Each pizza was originally cut into 12 pieces, and the shaded areas represent the slices that were not eaten.



1. What fraction of pizza A is left?

$\frac{7}{12}$ left in Pizza A

2. If all of the pieces were put together, how many whole pizzas could Julia make? How many extra pieces would she have?

$\frac{7}{12} + \frac{1}{12} + \frac{5}{12} + \frac{2}{12} + \frac{10}{12} = \frac{25}{12} = 2 \frac{1}{12}$
 2 whole pizzas plus 1 extra slice

3. Julia wants to write the amount of leftover pizza as a single fraction. How could she do this?

3-11. Copy and complete the generic rectangle below. What multiplication problem does it represent and what is the product?

	10	+5
20	200	100
+7	70	35

200
 100
 70
 35
 405

27
 $\times 15$
 405