SKILL BUILDER 2

Solve each problem. Then, check your solution.

|	
1. Mattie read 378 pages of a book during his vacation. He read the same number of pages each day. His vacation was 7 days long. How many pages did he read each day?	2. Olivia is sewing 6 identical dresses. She needs 78 buttons to complete all the dresses. How many buttons are on each dress?
Solution:	Solution:
Toolkit:	Toolkit:

3. Find the values for points X and Y. Explain your strategy.

Y   50   X   258
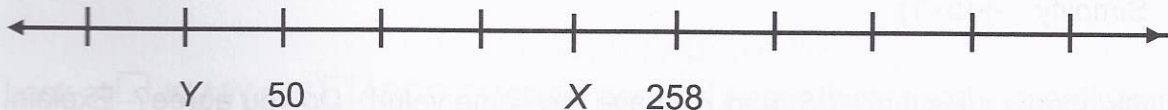
SKILL BUILDER 3

1. Locate the following numbers and their opposites on the number line.

-2	0	$\frac{1}{3}$	$-\frac{1}{3}$	$\frac{2}{3}$	$-2\frac{2}{3}$

Write the opposite of each expression.

2.	-5	3.	$|14|$	4.	$(9-7)$
5.	$|8-6|$	6.	0	7.	34

Simplify the absolute value expressions.

8.	$|14|$	9.	$|-5|$	10.	$-|5|$
11.	$|0|$	12.	$|9-7|$	13.	$-|-9|$

14. What is the opposite of the opposite of 10?

15. Simplify -(-25)

16. Simplify $-|-(5-1)|$

17. Stephanie says that -(-5) and $|5|$ have the same value. Do you agree? Explain.

SKILL BUILDER 4

1. Label the two axes and four quadrants.

2. Graph the four ordered pairs below and connect them to form □ABCD.

   A (0, 3), B (4, 3)
   C (4, 7), D (0, 7)

   □ABCD is in Quadrant _____.

3. Draw □EFGH so that it is a reflection of □ABCD over the x-axis.

4. List the ordered pairs for □ EFGH:

   E (_____ , _____)
   F (_____ , _____)
   G (_____ , _____)
   H (_____ , _____)

Quadrant _____

Quadrant _____

Quadrant _____

Quadrant _____
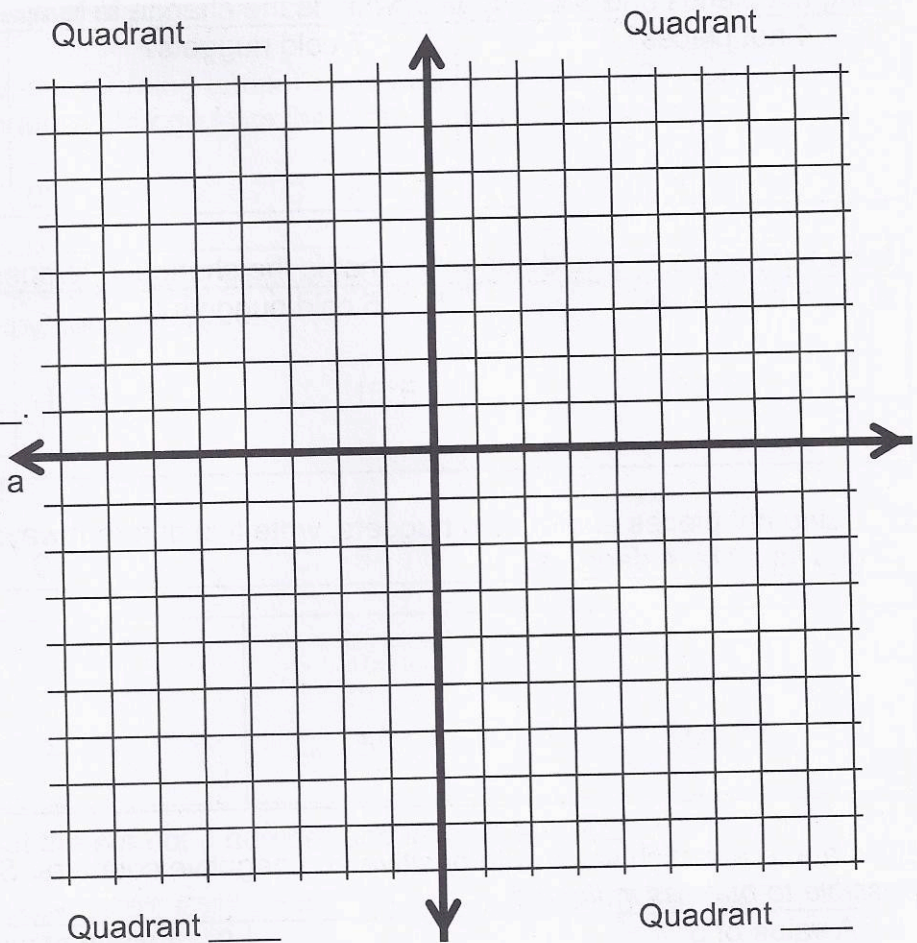
5. Look at □ EFGH and □ABCD. Describe how the x-coordinates and y-coordinates of the vertices are related.

6. Draw □KLMN so that it is a reflection of □ ABCD over the y-axis.

7. List the ordered pairs for □KLMN.

8. Look at □ KLMN and □ABCD. Describe how the x-coordinates and y-coordinates of the vertices are related.