

Name: _____ Period: _____ Number: _____

Math 9 / 9H

R.2 HW : I Can Review Units 1 – 3.3

1) Fill in the justifications for the following problem:

$$\begin{array}{r} 3x - 4 = 11 \\ +4 \quad +4 \\ \hline 3x + 0 = 15 \\ \hline 3x = 15 \\ \bar{3} \quad \bar{3} \\ \hline 1x = 5 \\ \hline x = 5 \end{array}$$

2) Solve the following equation (DON'T JUSTIFY)!

$$\frac{5x-3}{4} = \frac{2x+7}{3}$$

3) Solve the following equation in terms of "z."

$$\frac{4z+y}{x} = 8$$

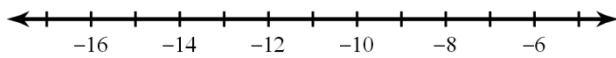
4) To find the perimeter of a fence, you can use the formula $P = 2l + 2w$.

a. Solve the formula in terms of "w."

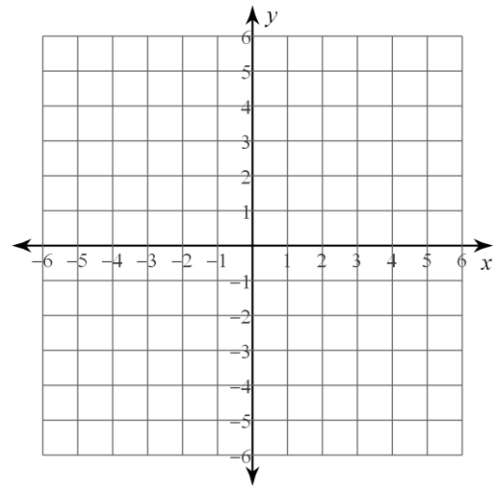
b. If the perimeter of a fence was 56 feet, and the length was 18 feet, what is the width?

5) Solve the following inequality:

$$-7x - 2 < 61 \text{ and } 7x - 3 \geq -73$$



6) Graph the following linear function:
 $x - y = 4$



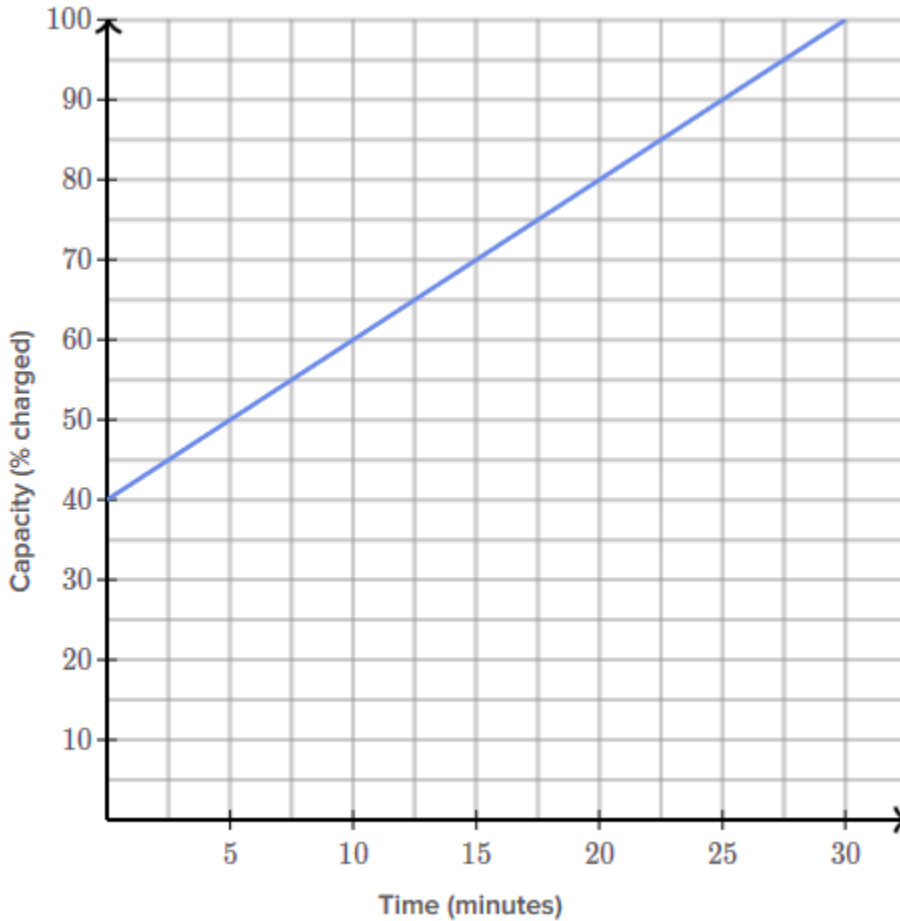
7) With the linear function $-2x - 3y = 21$,

a) Write in slope-intercept form.

b) Identify the slope.

c) Identify the y-intercept.

Look at the graph below and answer the following questions:



7) Write an equation that goes with this graph.

8) What does the slope mean in context? (Use actual numbers in your explanation.)

9) What does the y-intercept mean in context? (Use actual numbers in your explanation.)

10) I can only charge my battery for 15 minutes. If I did, what would my battery percentage be at?

11) If I charged my phone for 28 minutes, what would the battery percentage be at?