Math 8CP Homework
March 19-21

Name _____
Per ____ Date _____

Tuesday:

1. Fill in the table, find the rule, graph and answer the questions:

Time (minutes)	0	5	10	15
Distance away from home (miles)	7	10	13	16

Rule:_____

a. Interpret the slope in the context of this problem:

_____

b. Interpret the y-intercept (how can you start at 7 miles?):

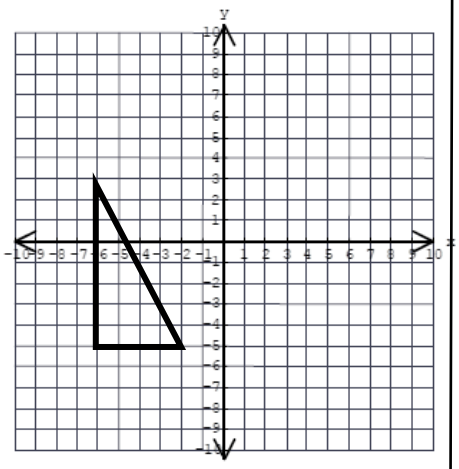
_____

c. How far will you be away from home after 40 minutes?

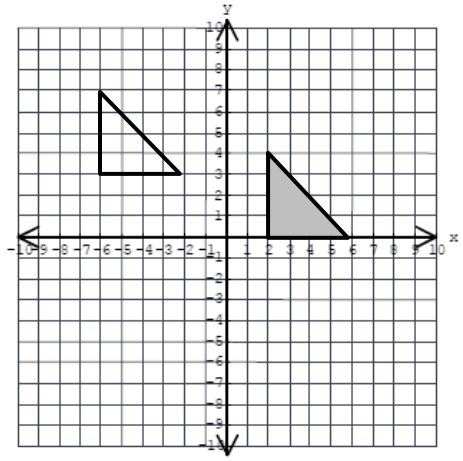
_____

d. How many minutes will have passed when you are 49 miles away from home?_____

2. Rotate the figure 180°



2. Write the rule of the transformation Of the shaded to non-shaded image.



2. _____

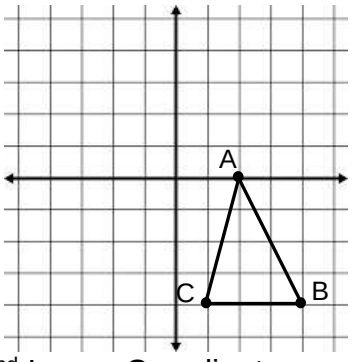
3. Solve:

a. $-\frac{x}{3}+8=14$

b. $3x - 7 = -3x + 19$

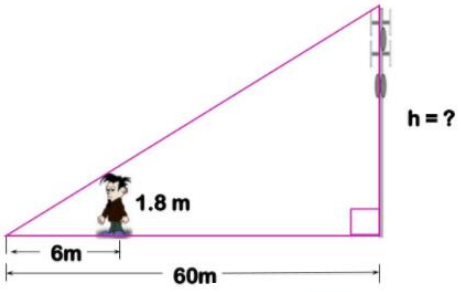
Wednesday:

1. Rotate the figure 90° clockwise then reflect over the x-axis



2nd Image Coordinates:
A'': (,) B'': (,) C'': (,)

2. The triangles are similar. Find the missing height.

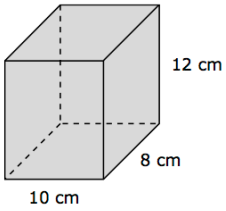


3. Choose the ordered pair that is the solution for the given equation; show why it works!

$3x - 6y = 18$ a. (3, 2) b. (4, 2) c. (4, -1) d. (0, 3)

4. Find the volume and the surface area:

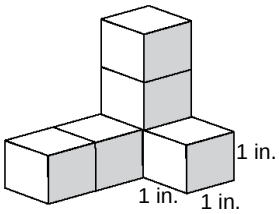
a.



V=_____

SA=_____

b.



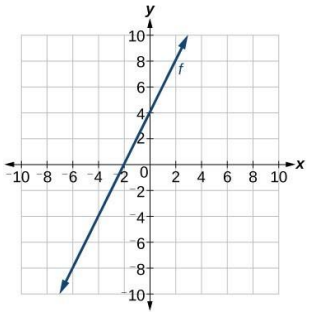
V=_____

SA=_____

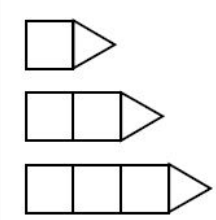
Thursday:

1. Write the rule for the following linear functions:

a.



b. (Count the sides.)

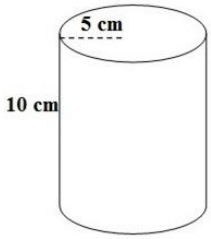


c.

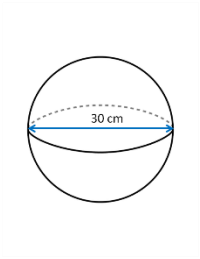
x	-5	-3	-1	1
y	5	2	-1	-4

2. Find the volume:

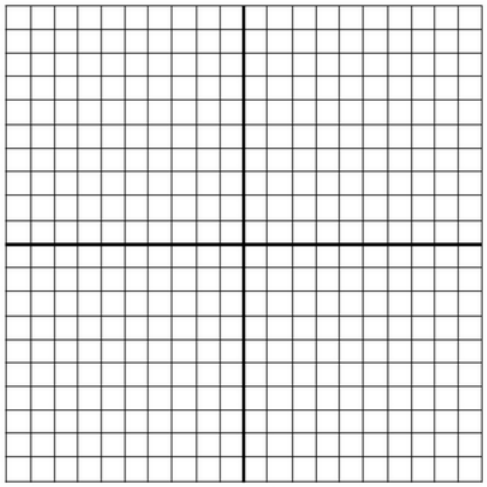
a.



b.



3. Graph both equations. Find the solution, then prove algebraically your solution is correct.



$y - 3x = -5$

$y = -\frac{1}{2}x + 2$

solve algebraically:

Solution_____