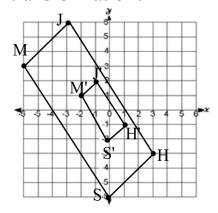
8th Math – Homework Week 26 Name:

$$1.89 - 0.4x = 0.39 - 0.15x$$

- 2. A half-gallon of ice cream is in the shape of a cylinder. The height of the cylinder is 17.5 cm and the diameter is 20 cm. To the nearest tenth, how many cubic centimeters of ice cream are inside of the container?
- 3. A canister of tennis balls has a height of 8.1 inches. If Javier is making a label for the canister, how many square inches of paper will he need if the diameter of the canister is 2.7 inches?
- 4. Which of the following rules could be used to represent the given transformation?



a. 
$$(x, y) \rightarrow (x + 2, y - 2)$$

b. 
$$(x, y) \rightarrow (\frac{1}{3}x, \frac{1}{3}y)$$
  
c.  $(x, y) \rightarrow (\frac{1}{3}x, 3y)$ 

c. 
$$(x, y) \to (\frac{1}{3}x, 3y)$$

d. 
$$(x, y) \to (3x, 3y)$$

5. The volumes of some containers were given below. Write the volumes in order from greatest to smallest.

$$36\pi$$
, 2.04 x 10<sup>2</sup>, 201,  $\sqrt{40,000}$ , 1.98 x 10<sup>2</sup>

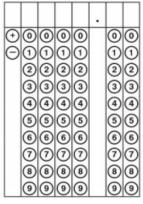
6. Marcello is building a ladder to get to his above-ground pool. The pool has a height of 5 meters. If the length of the ladder is 10 meters, how far away from the pool is the base of the ladder? Round to tenth.

- 7. Linda is investing \$4,000 into a savings account. She can chose between an account that earns 3.5% simple interest for 5 years or an account for 4 years that earns 3.25% interest compounded annually. Which account will earn her more money and by how much?
- 8. A tree is 8 ft. tall when it is planted. It grows  $\frac{2}{3}$  ft. every year. Write an equation in slope-intercept form to represent the height, y, after x years.

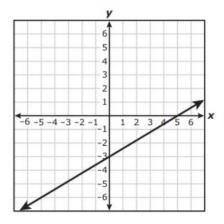
Use the griddables below to answer questions #9 and #10.

9. Find the rate of change from the table below.

x	у		
-2	12		
0	3		
3	-10.5		
7	-28.5		



10. A linear equation is graphed below. What is the y-intercept of the line?



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_	3 4 5 6	000000000000000000000000000000000000000	_	000000000000000000000000000000000000000		) (3) (4) (5) (6)	=
	8	8	8	8		8	8
	9	9	9	9		9	9