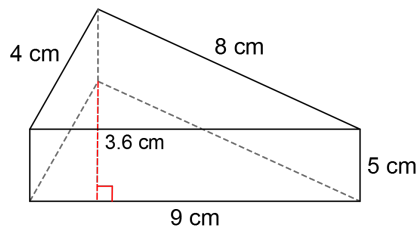Name: _____ 8th Math – Homework Week 28
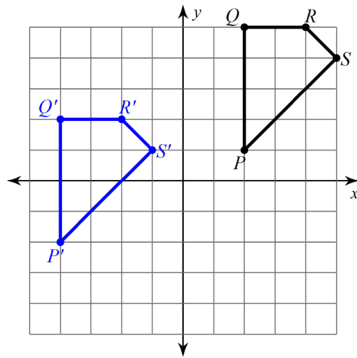
1. Solve for the variable.

$$\frac{2}{5}x - \frac{8}{5} = \frac{1}{2} + \frac{3}{4}x$$

2. A museum is putting together a display of Native American houses. The museum has a replica teepee that is in the shape of a cone. If the height of the teepee is 8 feet and the diameter is 8 feet, how many cubic feet of space will the teepee have?

3. Find the lateral surface area of the figure below.

4 cm   8 cm
3.6 cm
5 cm
9 cm

4. What is the rule for the transformation that is represented below?

a. $(x, y) \rightarrow (x - 6, 3y)$
b. $(x, y) \rightarrow (x + 6, y - 3)$
c. $(x, y) \rightarrow (6x, 3y)$
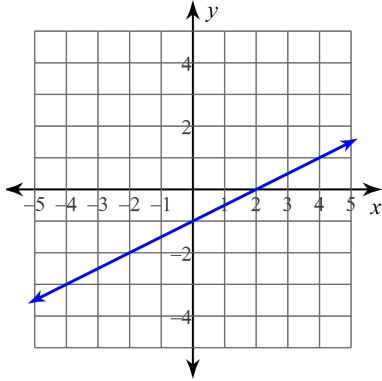d. $(x, y) \rightarrow (x - 6, y - 3)$

5. The table represents the distance calculated by different surveyors. Write the names in order from the greatest distance to the shortest.

Rachel	Logan	Gail	Bob	Sarah
$\sqrt{144}$	1.23×10^1	$\frac{66}{5}$	$\sqrt{158}$	1.32×10^1

6. A SmartBoard measures 60 in. diagonally. The length of the board is 48 in. What is the height of the SmartBoard?

7. Rhonda opens a savings account with $5,300. She makes no additional deposits or withdrawals for the next 4 years. If the account earns 2.7% simple interest, how much money will be in the account at the end of the 4 years?

8. Write an equation in slope-intercept form for the given graph.
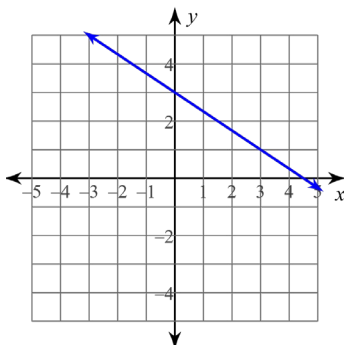

Use the griddables below to answer questions #9 and #10.

9. Find the slope from the table.

x	-5	-2	2	7
y	18	12	4	-6

10. Find the y-intercept from the graph.