Name _____ pd _____ Date _____

Week 27 Homework: March 16-19, 2015

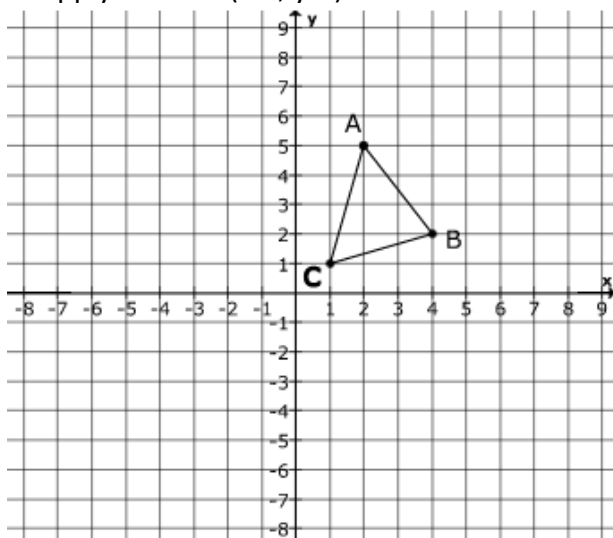|	
1. Solve for y. You must show work! $$18y + 34 - 9y = 403$$	2. Solve for p. You must show work! $$5p - 25 \leq 55$$
3. Solve and round to the tenths place. $$\frac{15^3}{-16} + \sqrt{34}$$	4. Solve and round to the hundredths place. $$-100 + 8^3 - \sqrt{15}$$
5. Apply the rule (x-5, y-6).	6. Find the slope and y intercept of the line.
7. Write at least 3 of the synonyms of slope that we know.	8. What is the inverse of squaring a number?
9. Convert to scientific notation. 0.0000000708	10. Will this be a proportional or non-proportional line? Explain why. $$y = 5x$$
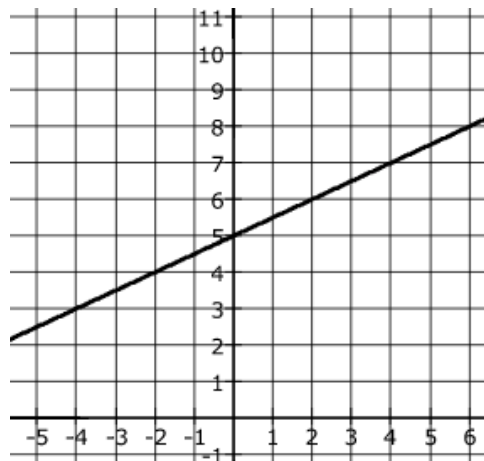
11. What transformation occurred?	12. How much will the bowl hold?

11. What transformation occurred?

| Original Figure	Translated Image
A(-5, 10)	A'(2, 4)
B(7, -2)	B'(14, -8)
C(3, 8)	C'(10, 2)

12. How much will the bowl hold?

d=10 in

---
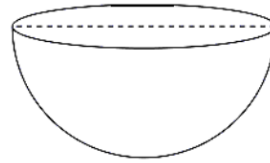
13. Harry wants to know if the residents in his apartment complex use the gym and recreation facility. He decides to survey everyone in building fourteen about their gym usage. Pick the best group to survey.

A. The building fourteen residents

B. The apartment complex residents

C. Those residents at the gym in the afternoon

D. People in his family that live at the apartment complex

14. The scatterplot compares the number of tickets sold and the amount of concessions sold. About how many concessions will be sold if 50 people buy tickets?

---
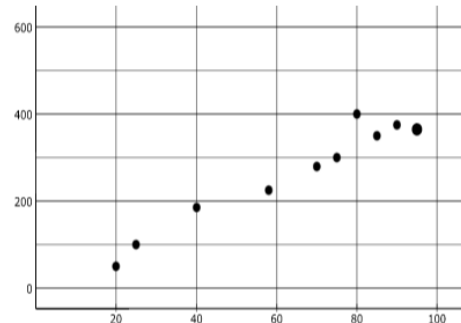
15. Find the m∠KNM when m∠LRS=108°.
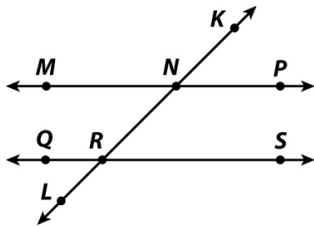
16. Brooke has a cylindrical tube that is 17 inches high and has a diameter of 9 inches. She wants to wrap the entire tube with fabric. The fabric costs 15 cents ($0.15) per square inch. How much will she spend on fabric?

---

17. Use the below equation to complete the table.

X	Y
-12	
-4	
0	
20	

$$y = \frac{1}{2}x - 5$$

18. Find the mean absolute deviation of the cost of lawn maintenance.

Cost of lawn maintenance ($)			
640	250	500	640
720	640	250	720

---

19. Write the rule for a dilation with a scale factor of $\frac{1}{2}$?

20. Solve for k.
$$24k + 15 = 13k + 81$$