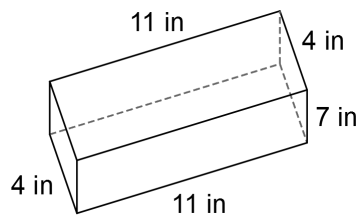Name: _____ 8th Math – Homework Week 27

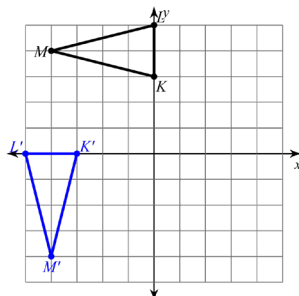1. Write and solve an equation from the situation.
Carrie and Miranda are selling concert tickets. Carrie sells 8 tickets a day after having sold 35. Miranda has sold 50 tickets and sells 3 tickets a day. After how many days will they have sold the same number of tickets?

2. A spherical balloon is filled with completely with water. If the balloon measures 6 cm in diameter, how many cm^3 will fit inside the balloon?

3. Jason is wrapping a box to send in the mail. If the box has the dimensions below, how much paper will be needed to cover the entire box?

4. Which of the following rules could be used to represent the given transformation?

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

5. Order the numbers from least to greatest.
$\frac{5}{12}$, -1.15, $\sqrt{14}$, $\frac{9}{2}$, $-\sqrt{8}$

6. George drives north for 20 miles before turning east and driving 25 miles. To the nearest tenth, how far is George from his starting point?
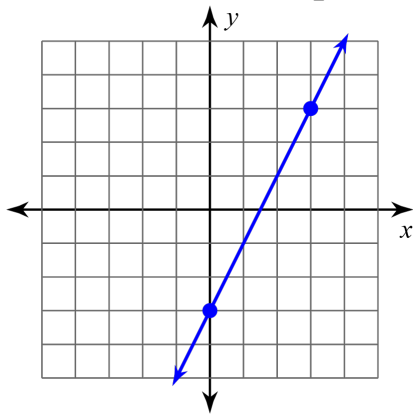
7. Alan invests $3,500 in an account that earns 1.5% interest compounded annually. He keeps the money in the account without making any additional deposits or withdrawals. How much will he have made in interest after 10 years?

8. Write an equation in slope-intercept form from the table.

Hours	1	2	3	4	5
Pages left in book	225	180	135	90	45

Use the griddables below to answer questions #9 and #10.
9. What is the slope of the graph?

10. Which of the following numbers is preventing this list from being considered a function?

{(-3, 5), (-1, -3), (6, 3), (-3, 8), (1, 3), (3, 6), (4, 8)}