

Keili Assessment 8/15/18

1. \$540 is invested in an account with an annually compounded interest rate of 6%. (You should use a calculator for this problem).

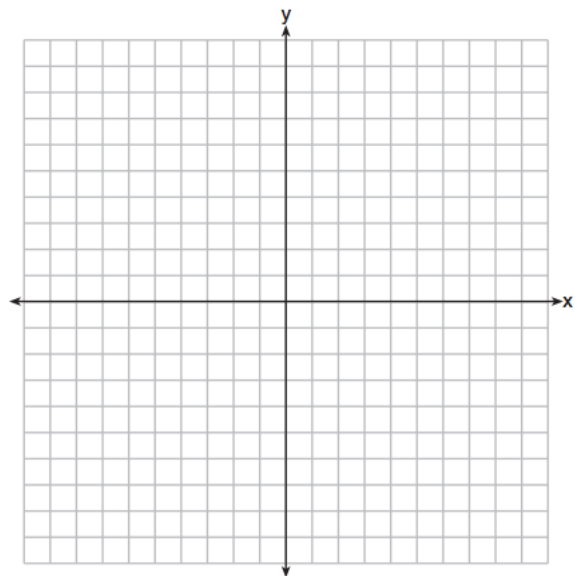
a. How much money would be in the account after 4 years?

b. How much money would have been made just with interest during that time?

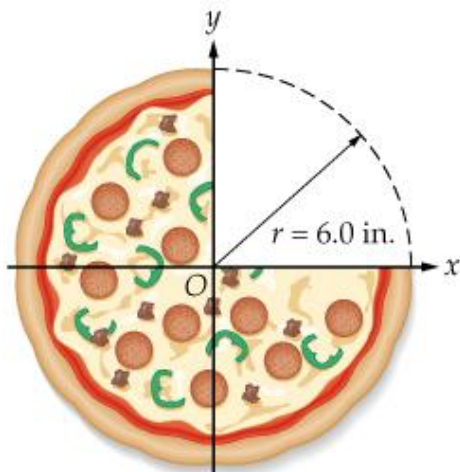
2. On the grid to the right, graph the following equations.

a.  $y = -2x + 5$

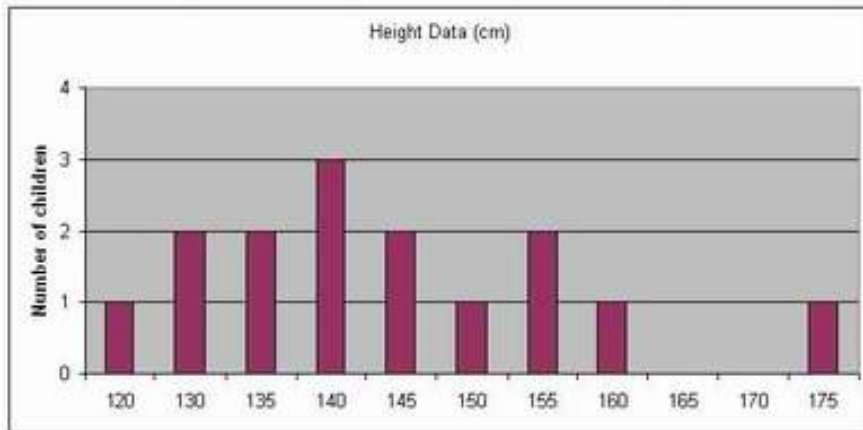
b.  $y = \frac{3}{4}x - 7$



3. What is the surface area shown of the remaining pizza? The answer can be written in terms of  $\pi$  or as a decimal.

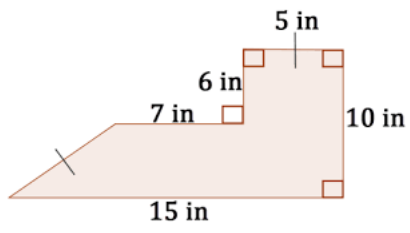


4. Here is a graph of the height of people who were surveyed. Find the information asked below for this data. The vertical axis is “Number of Children” and the horizontal axis is “Height in Centimeters.” This is a slightly advanced problem. I would recommend using a calculator, but please show the calculations made on the paper.  
 Hint: Writing out the numbers of the heights for each person will help. 120, 130, 130, ...etc.

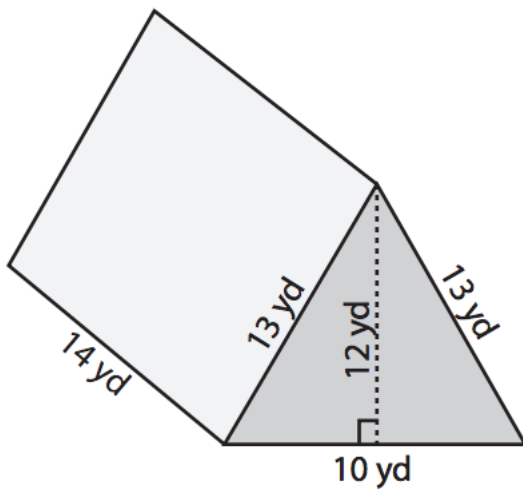


- a. Mean =
- b. Mode =
- c. Range =
- d. Minimum =
- e. Lower quartile =
- f. Median =
- g. Upper Quartile =
- h. Maximum =
- i. Interquartile Range =
- j. Boundaries for outliers =
- k. Are there any outliers? If so, which value(s)?
- l. Mean absolute deviation (round the mean value to a **whole number** for this or the calculations will take a LONG time!) =
- m. In the context of this situation, what does the mean absolute deviation tell us?

5. What is the area of this shape?



6.



a. Surface area =

b. Volume =