Week 4 questions Name _____

These questions are due by the end of the week. 10/10 points towards your assessment grade if you get them all right and have the math work on paper to back up your work.
You will receive zero points and fail the assignment if you are asked for your work on paper and can not produce that effort. Missing some part of the assignment will cause a loss of that percent of the overall assignment.
These weekly problems cannot be attempted a second time and the work must be turned in on time, not later in the day, not during remediation, and not the next day.
You should work on these problems throughout the week and use down time in class to work with your teams on the solution to these problems.

1.

**Standard** A1.1.2

Nolan has $15.00. He earns $6.00 an hour babysitting. The equation below can be used to determine how much money in dollars ($m$) Nolan has after any number of hours of babysitting ($h$).

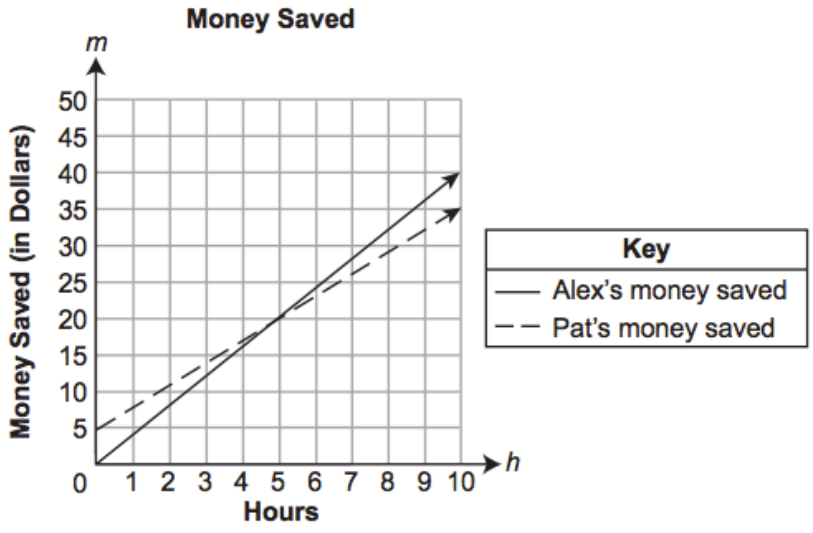
$$m = 6h + 15$$

**A.** After how many hours of babysitting will Nolan have $51.00?

hours: _____

2.

The graph below displays the amount of money Alex and Pat will each have saved after their hours of babysitting.




**C.** Based on the graph, for what domain ($h$) will Alex have more money saved than Pat? Explain your reasoning.

3. What are the differences between an expression and an equation?

Does a mathematical expression have a solution? Explain.

4. Suppose the temperature starts at 60°F and rises 2°F every 45 minutes. Use a table, an equation, and a graph to describe the relationship between the amount of time that has passed in hours and the temperature.