

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 A1.1.2.1.3

Francisco purchased x hot dogs and y hamburgers at a baseball game. He spent a total of \$10. The equation below describes the relationship between the number of hot dogs and the number of hamburgers purchased.

$$3x + 4y = 10$$

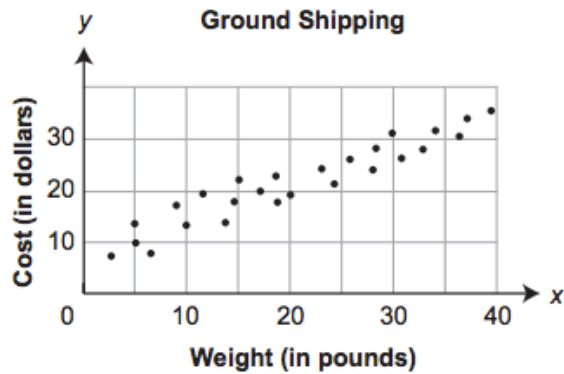
The ordered pair $(2, 1)$ is a solution of the equation. What does the solution $(2, 1)$ represent?

- A. Hamburgers cost 2 times as much as hot dogs.
- B. Francisco purchased 2 hot dogs and 1 hamburger.
- C. Hot dogs cost \$2 each, and hamburgers cost \$1 each.
- D. Francisco spent \$2 on hot dogs and \$1 on hamburgers.

2.

Standard A1.2.2.1

The scatter plot below shows the cost (y) of ground shipping packages from Harrisburg, Pennsylvania, to Minneapolis, Minnesota, based on the package weight (x).



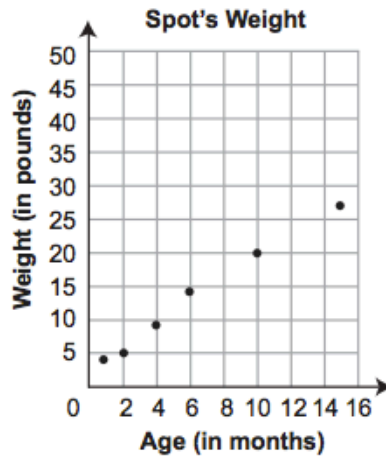
Which equation **best** describes the line of best fit?

- A. $y = 0.37x + 1.57$
- B. $y = 0.37x + 10.11$
- C. $y = 0.68x + 2.32$
- D. $y = 0.68x + 6.61$

3.

Standard A1.2.3.2.3

John recorded the weight of his dog Spot at different ages as shown in the scatter plot below.



Based on the line of best fit, what will be Spot's weight after 18 months?

- A. 27 pounds
- B. 32 pounds
- C. 36 pounds
- D. 50 pounds