

Algebra and Geometry Review 6

1. There are two solutions to this equation. What is the sum of the solutions?

$$|2x + 3| = 5$$

3. At a county fair, 250 people played the knock the bottle down game. Of the people that played, 25 of them won a prize. What is the ratio of the people that won the game to the people that didn't win the game?

5. Given that the data represent a linear equation, write the equation.

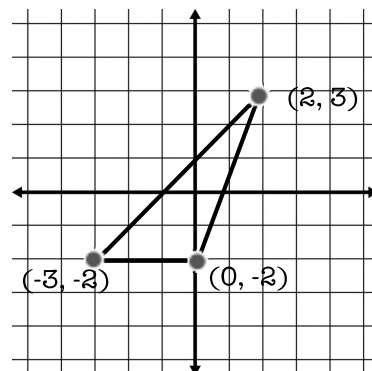
x	-2	1	5
y	-1	5	13

7. Mark loves bowling! In his last 3 games he got scores of 150, 220, and 180. What does he need to score in the 4th game in order to raise his average score to 200?

9. Solve the inequality.

$$4 - 2x \leq 10$$

- 2 and 4. Given the triangle shown, find its area and perimeter.



6. Find the volume of a rectangular prism if its base has an area of 25 cm² and its height is 10 cm.

8. If an equilateral triangle has a height of 9, what is its area?

10. Find the value of y in terms of x.

