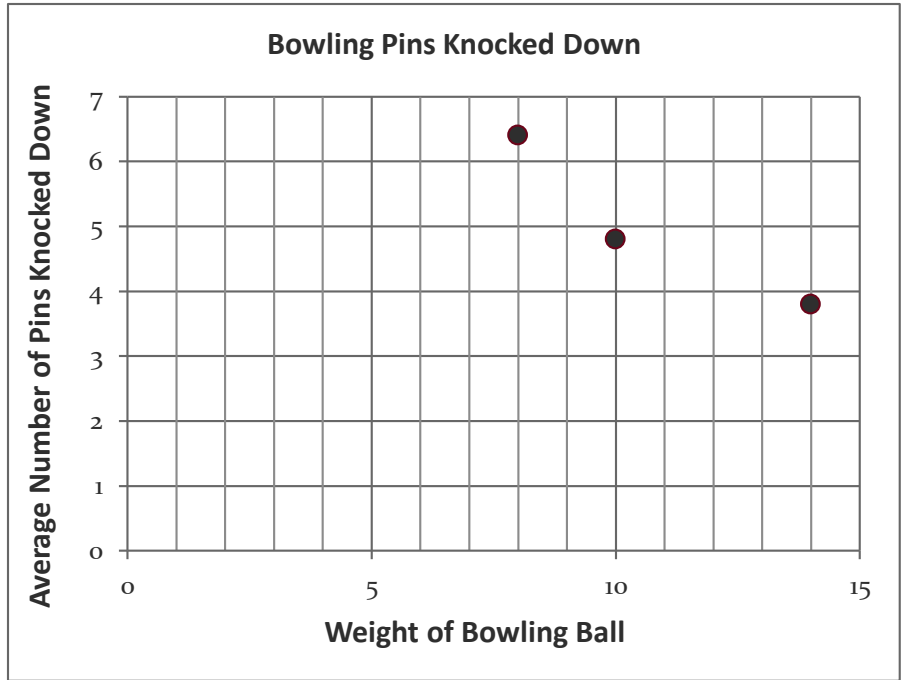


More Bowling with Jacob

Name: _____ Date: _____ Hour: _____

Jacob decided to bowl with various weights of bowling balls and see how many pins he knocked down. He decided to try the 8 lb., 10 lb., and 14 lb. bowling balls. He made 5 attempts to knock down 10 standing pins with each weight. He then took the average number of pins for each weight.

Weight of bowling ball	Pins knocked down (average)
8 lbs.	6.4
10 lbs.	4.8
14 lbs.	3.8



Place an **X** by each true statement below based on Jacob's data and scatter plot provided below.

- _____ **A** If Jacob knocks down 5 pins when he uses the 12 lb. ball, it will be more than expected.
- _____ **B** If Jacob knocks down 4 pins when he uses the 12 lb. ball, it will be more than expected.
- _____ **C** If Jacob uses a 16 lb. ball, he can expect to knock down fewer than 3.7 pins on average.
- _____ **D** Jacob's accuracy is improving as the ball's weight increases.
- _____ **E** Jacob can knock down more than 60% of the pins with the 8 lb. ball.

Explain your thinking. Describe what Jacob's data table and graph show.
