

Iowa Test – Data Analysis PRACTICE

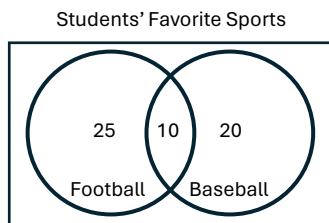
Name:

Period:

- 1) Mr. Arends has a collection of 10 pens. He has 2 red pens, 4 blue pens, and the rest are black pens. If Mr. Arends randomly selects one pen from his collection without looking, what is the probability that it is a blue pen?

- A. $\frac{1}{5}$
- B. $\frac{2}{5}$
- C. $\frac{2}{3}$
- D. $\frac{4}{5}$
- E. $\frac{3}{5}$

- 2) In a survey conducted among 50 students, 25 students said they like football, 20 students said they like basketball, and 10 students said they like both football and basketball. How many students don't like football or basketball?



How many students answered that their favorite sport is neither football nor baseball?

- A) 5
- B) 10
- C) 15
- D) 20
- E) 25

- 3) Use the menu below to answer the question.

Pizza Choices

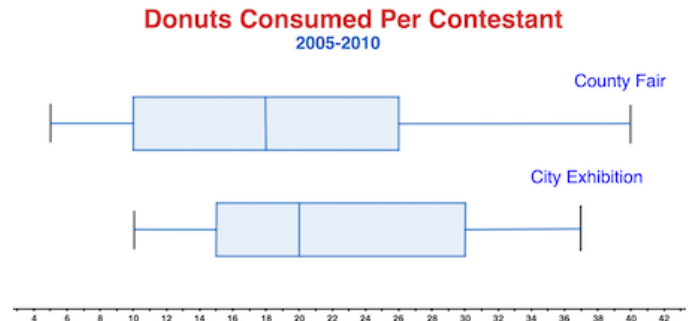
Pizza Size	Diameter	Cost
Mini Cheese	6"	\$5.00
Medium Cheese	12"	\$9.00
Large Cheese	14"	\$11.00
Jumbo Cheese	16"	\$13.00
Family Cheese	20"	\$16.00
By the Slice		\$3.00

Four medium pizzas cost the same as how many individual slices?

- A) 7
- B) 10
- C) 12
- D) 16
- E) 18

Directions: Use the box-and-whisker plot below to answer questions 4 and 5.

The box-and-whiskers plot displays the number of donuts consumed per contestant in two different competitions.



- 4) Half of the contestants at the County Fair ate between

- A. 5 and 10 donuts
- B. 26 and 40 donuts
- C. 10 and 26 donuts
- D. 18 and 26 donuts
- E. 10 and 40 donuts

- 5) In which quartile of the following does a contestant who ate 28 donuts belong?

- A. County Fair third quartile
- B. County Fair first quartile
- C. City Exhibition second quartile
- D. City Exhibition third quartile
- E. City Exhibition fourth quartile

- 6) Which of the following datasets can be arranged in a ranking order?

- A. A list of cities by population density
- B. A list of cars by color
- C. A list of books by genre
- D. A list of animals by habitat
- E. A list of smartphones by brand name