299 • Statistics and Probability

20, 5, 30, 45, 5, 5

If the number 200 were added to the list, what could you say about the new data set?

a) The mean would decrease.

b) The range would increase.

c) The mode would increase.

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251 • Statistics and Probability

Which choice is a statistical question?

a) How old is Samantha?

b) How old is your grandmother?

c) How old are students in my class?

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290 • Statistics and Probability

At a pizzeria, the number of pepperoni pizza orders on Friday was 78. On Saturday, they had 100 pepperoni pizza orders, and on Sunday, they had 45 orders. What would happen to the median of this data if it included the number of orders on Monday, which was 60?

a) The median would decrease.

b) The median would stay the same.

c) The median would increase.

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295 • Statistics and Probability

In a set of data, the value of the first quartile is 50. The value of the third quartile is 60. What is the value of the interquartile range?

a) 10

b) 20

c) 110

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233 • Geometry

In a coordinate plane, a square has one vertex at (0, 0). If the side length of the square is 12 units, which answer is another vertex for the square?

a) (0, 4)

b) (4, 3)

c) (0, 12)

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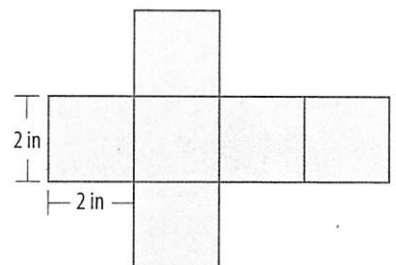
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263 • Statistics and Probability

Which answer has the largest spread between the data points in the set of data?

a) The ages of students in a school for grades kindergarten through eighth grade.

b) The ages of students in a high school.

c) The ages of students in 12th grade.

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241 • Geometry

What is the surface area for the cube that is represented by the following net?

a) 12 square inches

b) 18 square inches

c) 24 square inches

2 in

2 in

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Instructions:

1. For a 4x4, you only use 1, 2, 3, 4.

2. Do not repeat numbers in any row or column.

3. The numbers in each heavily outlined set of squares, called cages, must combine (in any order) to produce the target number in the top corner using the math operation indicated.

4. Cages with just one square should be filled in with the target number in the top corner.

3 −		72 ×	
9 +	2 −		
		8 ×	
	2 ÷		