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Tutor Doctor

Math 7: Data Management and Probability, 10 Questions

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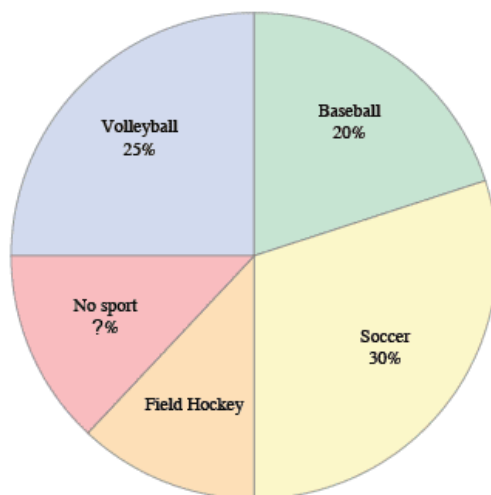
1. Chantelle conducted a survey to determine how students got to her school on a particular day. She found that they had used 4 transportation methods: walking, bike riding, taking the bus, and riding in a car. She interviewed 200 students in all.

Chantelle displayed the results of her survey in a circle graph. The sector of her graph showing how many students walked to school had a central angle of 40° .

How many students walked to school on the day Chantelle surveyed?

- ☐ A) 11
☐ B) 22
☐ C) 40
☐ D) 50

2.



A student is making a circle graph summarizing which sport each of the Grade 7 students at her school prefer to play. She isn't quite done, but the graph above shows what she has finished so far.

If there are 50 students in grade 7, and 4 of them like to play Field Hockey best, what percent of the students prefer to play no sport?

- ☐ A) 8
☐ B) 10
☐ C) 17
☐ D) 83

3.

Mr. Ferguson organizes the school ski club. He has a list of 55 students who have paid to go skiing tonight. 25 of the students are in grade 9, 18 are in grade 8, and 12 are in grade 7.



The probability that the first student on the bus to the ski hill will be in grade 8, and the first student on the bus back home will also be in grade 8, is

- ☐ A) 0.03
- ☐ B) 0.04
- ☐ C) 0.11
- ☐ D) 0.33

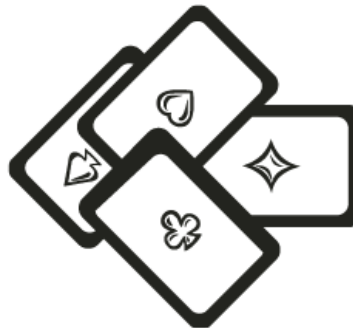
4.

Jill was analyzing flower production in a test area of a greenhouse. The number of flowers each plant produced was recorded. The mean was found to be 14, and the median was 10.

If the plants were given fertilizer and each plant produced an additional 4 flowers, what would be the new mean and median?

- ☐ A) Mean = 56; median = 40
- ☐ B) Mean = 10; median = 6
- ☐ C) Mean = 18; median = 14
- ☐ D) You need more data to calculate the new mean and median

5.

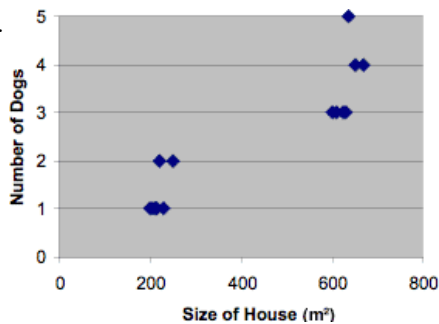


Using a standard deck of cards (without jokers), a card is chosen at random, replaced, and then a second card is chosen at random.

The probability of drawing a JACK and then a FACE CARD can be represented as the reduced fraction A/B .

$A + B =$ _____

6.



Based on the graph above, which of the following is true?

- ☐ A) The data is clustered around two points
- ☐ B) There is a gap in the data for houses 300 - 500 m²
- ☐ C) The data shows a definite trend
- ☐ D) All of the above

7.

You bought five raffle tickets for a brand new mountain bike. One thousand tickets were sold in total. You also bought 10 raffle tickets for a dirt bike. Two thousand of those tickets were sold.

What are the chances that you will win both bikes?

- ☐ A) $\frac{1}{40000}$
- ☐ B) $\frac{15}{4000}$
- ☐ C) $\frac{1}{2000}$
- ☐ D) $\frac{50}{4000}$

8.

The data set below shows the age of children attending a library storytime:

{1, 1, 2, 2, 2, 3, 3, 3, 4, 5, 6, 7, 7, 7, 9, 9, 10}

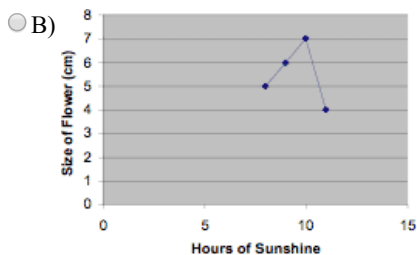
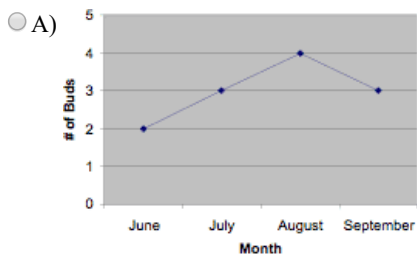
What is the range of ages for the children attending the storytime?

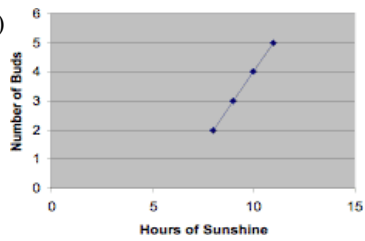
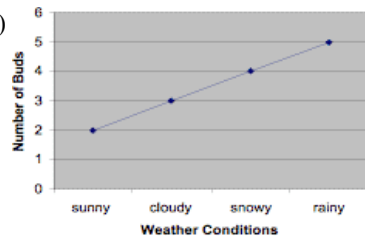
- ☐ A) 4.76 years
- ☐ B) 9 years
- ☐ C) 1 year
- ☐ D) 4 years

9. Given the following set of numbers: {2, 5, 3, 21, 4, 6, 2}, which number other than 2, in the data set, would you need to determine the range?

- ☐ A) 2
- ☐ B) 3
- ☐ C) 6
- ☐ D) 21

10. Alistair is looking for data for his research project which is attempting to see if there is a relationship between the number of buds a sunflower gets and the amount of sunlight it receives daily. Which of the graphs shown below would give Alistair the BEST data for his project?



☐ C)☐ D)

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