

Worksheet: Data and probability

1. Yangden wants to collect data to see how many students like different sports in her school. Which of the following is not a biased sample?
 - a. Collecting the data from all her friends.
 - b. Collecting data from all the boys.
 - c. Collecting data from classes five and six.
 - d. Collecting data from all grade levels.
2. Which of the following can be used as a tool to collect data?
 - a) Interview
 - b) Questionnaire
 - c) Observation
 - d) All of the above

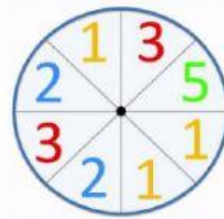
3. What is the probability of the spinner landing on 1?

a) $\frac{3}{5}$

b) $\frac{3}{8}$

c) $\frac{5}{5}$

d) $\frac{5}{8}$



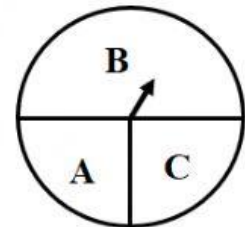
4. What is the probability of landing the arrow on B in the spinner on the right?

a) 50%

b) $\frac{1}{2}$

c) $\frac{2}{4}$

d) All options are correct



5. Where would you plot the point for the coordinate: (2, -3)?
 - a) Quadrant I
 - b) Quadrant II
 - c) Quadrant III
 - d) Quadrant IV

6. The graph below shows the marks obtained by 10 students in a class test. Study the graph and answer questions.

Stem	Leaf
1	5
2	2 5 7
3	3 4 4 4
4	6
5	2

- a) Find the mean, median and the mode from the above graph.

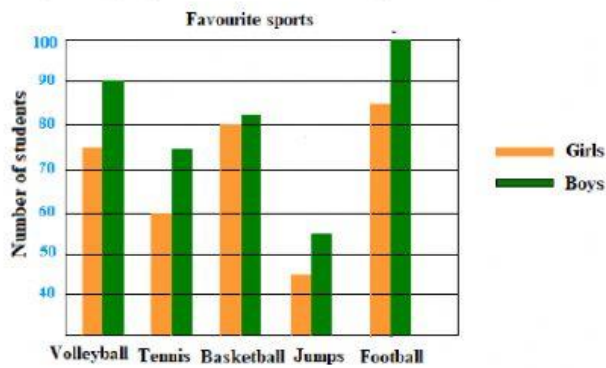
Answer:

Mean: = _____

Median = _____

Mode = _____

7. Study the graph and answer the question.



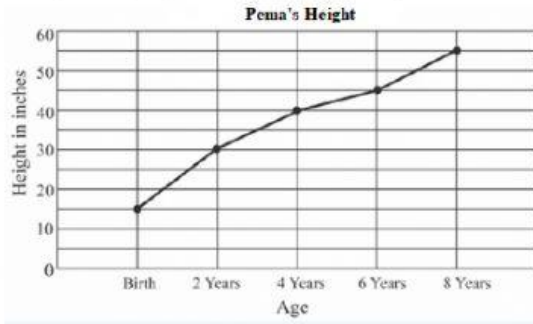
- a) How many girls are there in the school?

Answer: There are _____ girls in the school.

- b) Which sport is the most preferred sport for boys?

Answer: _____ is the most preferred sport for boys.

8. Study the graph and answer the question.



a) What was Pema's height at birth?

Answer: _____ inches.

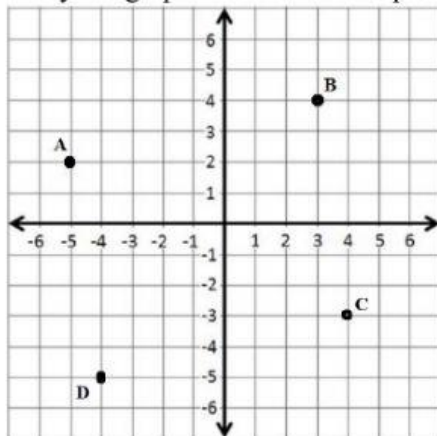
b) How tall was Pema when she was 7 years old?

Answer: _____ inches.

c) How much has Pema grown from 4 to 6 years?

Answer: _____ inches.

9. Study the graph and answer the question.



a) Write the ordered pairs (coordinates) of the following points from the graph

A (____, ____)

B (____, ____)

C (____, ____)

D (____, ____)