Question Bank

1. **CHOOSE THE CORRECT OPTION.**

   a. A statement that we presume is correct is called

      i. data   ii. hypothesis

      iii. experiment   iv. analysis

   b. In a bar graph, 1000 people are represented by 6 cm. What height of bar will represent 1500 people?

      i. 1500 cm   ii. 1000 cm

      iii. 6 cm   iv. 9 cm

   c. Tossing a coin is a/an

      i. event   ii. probability

      iii. experiment   iv. outcome

   d. If a letter is selected from the word "PROBABLE", what is the probability of selecting B?

      i. $\dfrac{1}{8}$ ii. $\dfrac{1}{4}$ iii. $\dfrac{3}{4}$ iv. $\dfrac{3}{8}$

   e. A die is thrown. Which of the following pairs of outcomes is *not* equally likely?

      i. throwing 6 and throwing 3

      ii. throwing an even number and throwing an odd number

      iii. throwing a number less than 3 and throwing a number greater than 4

      iv. throwing a number divisible by 2 and throwing a number divisible by 3

2. **FILL IN THE BLANKS.**

   a. An _____ is a situation involving chance or probability that leads to results called outcomes.

   b. An _____ is the result of a single trial of an experiment.

   c. An _____ is one or more outcomes of an experiment.

   d. _____ is the measure of how likely an event is.

   e. Tossing a coin is an _____ . (event/experiment/outcome).

3. **ANSWER THE FOLLOWING QUESTIONS.**

   a. Find the mean, mode and median of the following data: 24, 36, 45, 62, 37, 45, 56, 48, 60, 45, 62.

   b. The approximate population in lakhs of six states according to 2011 census is given below. Represent the data on a bar graph.

State	Population
Andhra	760
U.P.	1700
Rajasthan	560
Punjab	240
Bihar	830
Haryana	210

   c. The number of students who took part in various events in an inter school competition is given below. Represent the data on a bar graph.

Event	No. of students
Painting	128
Singing	161
Dancing	86
Debate	172
Quiz	215
Rangoli	63

   d. If one card is drawn randomly from a deck of 52 cards, what is the probability of drawing the following? (Leave your answers as lowest fractions.)

      i. any picture card (jack, queen, king)

      ii. any king

iii. any picture card of diamonds

iv. any red picture card (diamonds and hearts)

e. A bag contains 4 red marbles, 3 blue marbles and 2 green marbles. If one marble is drawn at random, calculate the probability of drawing the following. (Leave your answers as lowest fractions.)

i. a red marble

ii. a blue marble

iii. a green marble

iv. a red or green marble

v. a red or blue or green marble