

Probability

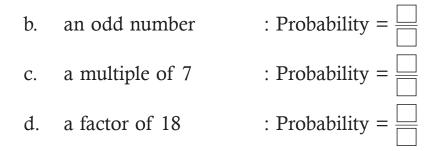
QI.	Choose a word from the words given below and write against appropriate definition:					
	Ever	nt Sample space Probabili	ty Favourable event			
	a.	The set of all possible outcomes	of an experiment :			
	b.	Each possible outcome of an exp	periment :			
	c. Desired event as an outcome :					
	d. The ratio between the favourable event to the sample space :					
Q2.	2. Fill in the blanks:					
	a.	When a coin is tossed the probab	bility of getting a head is			
	b.	The probability of an impossible	event is			
	c. In a die, the sum of dots on opposite faces is					
	d.	When a die is thrown randomly the	ne number of outcome(s) is/are			
Q3.	Aarti's school bag contains 2 English notebooks, 3 Science notebooks, 2 Maths notebooks and 1 rough notebook. Aarti randomly takes out a notebook from her bag. Find the probability of her taking out:					
	a.	A Science notebook	: Probability =			
	b.	An English or Maths notebook	: Probability =			
	C.	A rough notebook	: Probability =			
	d.	A Hindi notebook	: Probability =			

of the box at random. What is the probability that card taken out bears:

a. an even number

: Probability = $\frac{1}{1}$

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Q5. A die is thrown randomly 25 times and the outcomes are noted as shown below:

Outcome	1	2	3	4	5	6
Frequency	2	5	7	3	6	2

If the die is thrown at random, find the probability of getting:

- a. a multiple of 2: Probability = \Box
- b. a number less than 7: Probability = \square
- c. a number between 1 and 3:

Probability = \square

- Q6. If two coins are tossed simultaneously, find the probability of getting:
 - a. one head and one tail:

Probability = \square

b. not more than one tail:

Probability = \square

c. no heads:

Probability = \square

- Q7. From a well-shuffled pack of cards, a card is chosen at random. What is the probability that the chosen card is:
 - a. Black or red in colour: Probability = ____
 - b. A black face card:

Probability = _____

c. Not an Ace: Probability = _____

Q8. A coin is tossed 400 times with the following observations:

Head: 225; Tail : 175

When a coin is tossed at random, find the probability of getting:

- a. a head : Probability : _____
- b. a tail : Probability : _____
- Q9. A book has 238 pages. Raman had put a bookmark on page number 136, but it fell off. What is the probability that when Raman opens a page of the book, it would be page number 136?

Answer: _____

Q10. In the last ten class tests, Lata's scores were recorded as follows:

Marks scored	Less than 20	20	More than 20
Number of class tests	3	5	2

Find the probability of Lata scoring the following marks in the next class test:

a.	at least 20 marks	: Probability = \Box
b.	more than 20 marks	: Probability = \Box
C.	less than 21 marks	: Probability = \Box

Answers

1. a. Sample space; b. Event; c. Favourable event; d. Probability

2. a. $\frac{1}{2}$; b. 0; c. 7; d. 6 3. a. $\frac{3}{8}$; b. $\frac{1}{2}$; c. $\frac{1}{8}$; d. 0 4. a. $\frac{1}{2}$; b. $\frac{1}{2}$; c. $\frac{1}{10}$; d. $\frac{3}{10}$ 5. a. $\frac{2}{5}$; b. 1; c. $\frac{1}{5}$ 6. a. $\frac{1}{2}$; b. $\frac{3}{4}$; c. $\frac{1}{4}$ 7. a. 1; b. $\frac{3}{26}$; c. $\frac{12}{13}$ 8. a. $\frac{9}{16}$; b. $\frac{7}{16}$ 9. $\frac{1}{238}$ 10. a. $\frac{7}{10}$; b. $\frac{1}{5}$; c. $\frac{4}{5}$