

Class VIII

Worksheet

CHAPTER 4: DATA HANDLING (PROBABILITY)

Fill in the blanks from Q.1 to Q.5

Q.1 An event in the probability that will never be happened is called as _____ event

Q.2 If a number is selected at random from the first 50 natural numbers, then the probability that the selected number is a multiple of 3 and 4 is _____

Q.3 If the winning probability is 0.3 then the probability of losing a game is _____.

Q.4 The probability of getting a prime number from the numbers starting from 1 to 100 is _____

Q.5 The probability of an impossible event is _____

Choose the correct option from Q.6 to Q.12

Q.6 In a box, there are 8 orange, 7 white, and 6 blue balls. If a ball is picked up randomly, what is the probability that it is neither orange nor blue?

- a) $\frac{1}{3}$ b) $\frac{1}{21}$ c) $\frac{2}{21}$ d) $\frac{5}{21}$

Q.7 Suppose a number x is chosen from the numbers -2, -1, 0, 1, 2. What will be the probability of $x^2 > 0$?

- a) $\frac{1}{5}$ b) $\frac{2}{3}$ c) $\frac{3}{5}$ d) $\frac{4}{5}$

Q.8 In 30 balls, a batsman hits the boundaries 6 times. What will be the probability that he did not hit the boundaries?

- a) $\frac{1}{5}$ b) $\frac{4}{5}$ c) $\frac{3}{5}$ d) None of the above

Q.9 Which of the following probability cannot exist?

- a) $\frac{2}{5}$ b) -1.5 c) 7 d) None of the above

Q.10 A stock of pens consists of 144 ball pens in which 20 pens are defective, and others are good. A girl went to the shop to purchase a pen. The shopkeeper randomly draws one pen and gives it to her. What is the probability that a girl will buy the good pen?

- a) $\frac{5}{26}$ b) $\frac{5}{36}$ c) $\frac{31}{36}$ d) None of the above

Q.11 A school has five houses named as A, B, C, D, and E. There are 23 students in a class in which 4 students are from house A, 8 students are from house B, 5 from C, 2 from D, and the rest from house E. Class teacher randomly selects a student to be the class monitor. What is the probability that the selected student is not from house A, B, and C?

- a) $\frac{1}{23}$ b) $\frac{2}{23}$ c) $\frac{5}{23}$ d) $\frac{6}{23}$

Q.12 Which of the following statement is not true about probability?

- a. The probability of an impossible event is 0.
- b. Probability can be greater than 1 or less than 0.
- c. Probability cannot be greater than 1.
- d. None of the above

Q.13 A dice is thrown. Find the outcomes of an event of getting:

- i. A prime number
- ii. Not a prime number
- iii) A number greater than 4
- iv) A number not greater than or equal to 5.

Q.14 Two coins are tossed simultaneously. Find the probability of getting:

- i) exactly one head
- ii) two heads
- iii) one tail
- iv) at least one head
- v) at the most one head
- vi) no heads

Q.15 A card is drawn at random from a pack of 52 cards. Find the probability that card drawn is:

- i) A black queen
- ii) A jack, a queen or a King

- iii) A card of heart or an ace
- iv) a card of diamond
- v) A red card
- vi) A jack

Q.16 Two dice are thrown simultaneously. Find the probability of getting:

- i) A doublet i.e. a same number on both the dice
- ii) An even number on one and a multiple of 3 on the other
- iii) An even number as the sum
- iv) A doublet of prime numbers
- v) A sum less than six.