

Class-8th, SET-8, Maths 26.08.2020

1. The following data :
4,7,10,22,42,11,27,28,55,36,8,9,34,44,57,20,8,30,10,15
is grouped in classes 0 – 5, 5 – 10, 10 -15 etc. Find the class
which have maximum frequency:
 - (a) 0 – 10
 - (b) 10 – 20
 - (c) 20 – 30
 - (d) 30 – 40

2. The probability of getting a multiple of 2 when a dice is rolled
is
 - (a) $\frac{1}{6}$
 - (b) $\frac{1}{3}$
 - (c) $\frac{1}{2}$
 - (d) $\frac{2}{3}$

3. The height of the bar in a Histogram shows :
 - (a) Width of class
 - (b) Upper limit of class
 - (c) Lower limit of class
 - (d) Frequency of class

4. A coin is tossed 200 times and head appeared 120 times. The
probability of getting a tail in this experiment is
 - (a) 35
 - (b) 25
 - (c) 45
 - (d) 15

5. A coin is tossed three times. Number of possible outcomes is
 - (a) 3
 - (b) 4
 - (c) 6
 - (d) 8

6. If two diagonals and three sides are given, then:
 - (a) A Quadrilateral cannot be constructed
 - (b) A Quadrilateral can be constructed
 - (c) Insufficient Information
 - (d) Any polygon can be constructed

7. If two diagonals are given, then we can construct a :
 - (a) Rhombus
 - (b) Rectangle
 - (c) Kite
 - (d) Parallelogram

8. To construct a parallelogram, we need to know:
 - (a) Length of its parallel sides
 - (b) Measure of Interior Angles
 - (c) Two adjacent sides and one angle
 - (d) Two adjacent sides and two angles

9. What is the probability of an Impossible event?
 - (a) 0
 - (b) 1
 - (c) 2
 - (d) None of these

10. In a School, only 4 out of 5 students can participate in an
Event. What is the probability of students who do not make it
to the event?
 - (a) 0.35
 - (b) 0.4
 - (c) 0.3
 - (d) 0.2

11. A bag contains 4 blue, 7 red, 3 black and 6 white balls. What
is the probability of picking a red ball randomly?
 - (a) $\frac{3}{10}$
 - (b) $\frac{3}{20}$
 - (c) $\frac{7}{20}$
 - (d) $\frac{1}{5}$

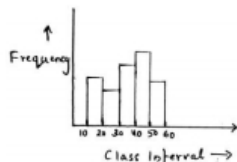
12. Data collected in a survey shows that 30% of the customers
are interested in a particular kind of clothes. The central angle
of sector of the pie chart representing this information is:
 - (a) 120°
 - (b) 108°
 - (c) 30°
 - (d) 126°

Marks	4	5	6	7	8	9	10
Frequency	4	6	8	13	6	5	8

Using the above frequency table, find the frequency of more than 8 marks :

- (a) 6
 (b) 19
 (c) 13
 (d) 10
14. The difference between the upper class limit and lower class limit of a class interval is called:
- (a) Frequency
 (b) Width
 (c) Grouped
 (d) Ungrouped data

15. Using given Histogram, find out which interval has maximum frequency ?



- (a) 10 – 20
 (b) 40 – 50
 (c) 50 – 60
 (d) 20 – 30
16. Given frequency table shows the number of children in each family:

Number of Children	0	1	2	3	4
Number of Families	4	7	14	16	9

Calculate the percentage of families which have more than two children:

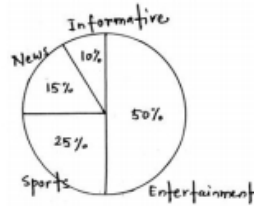
- (a) 50%
 (b) 40%
 (c) 60%
 (d) 30%
17. Given data shows the type and number of Ice-cream sold by bakery. In a Pictograph, one symbol represents 5 Ice-creams.

Type of Ice-cream	Vanilla	Chocolate	Butterscotch
Number of Cakes	40	55	35

How many symbols are required to represent the number of the cake which is sold the most?

- (a) 8
 (b) 10
 (c) 7
 (d) 11

18. Which two types of programs have number of viewers equal to those watching sports channel?



- (a) Entertainment and News
 (b) News and Informative
 (c) Informative and Entertainment
 (d) Sports and News
19. What is the appropriate condition to construct a Quadrilateral?
- (a) When four sides and one diagonal are given
 (b) When three sides and two diagonals are given
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)

20. A group of 360 people were asked to vote for their favorite season:

Season	Number of votes
Summer	90
Rainy	120
Winter	150

Find the central angle of sector for Rainy Season?

- (a) 120°
 (b) 150°
 (c) 90°
 (d) 180°
21. What is the probability of choosing a vowel from the word "MATHEMATICS"?

- (a) $\frac{1}{8}$
 (b) $\frac{2}{7}$
 (c) $\frac{1}{2}$
 (d) $\frac{4}{11}$

22. Monthly Salary of a person is Rs.10000. The central angle of the sector representing his expenses on food and house rent on a pie chart is 72° . The amount he spends on other items other than food and house rent is

- (a) Rs.2000
 (b) Rs.8000
 (c) Rs.6000
 (d) Rs.4000

23. In a pie chart which represents the distribution of proteins in parts of a human body. If bone protein covers $\frac{1}{6}$ of circle and skin protein covers $\frac{1}{10}$ of circle, then what is the central angle of sector representing skin and bones together?

- (a) 36°
- (b) 60°
- (c) 90°
- (d) 96°

24. Size of the class 100 – 125 is

- (a) 100
- (b) 125
- (c) 25
- (d) – 25

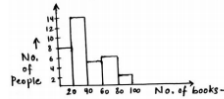
25. Tally marks are used to find:

- (a) Class Intervals
- (b) Range
- (c) Frequency
- (d) Lower limit

26. Each outcome or a collection of outcomes in an experiment is called

- (a) Random Experiment
- (b) Event
- (c) Equally likely outcomes
- (d) Probability

27. Histogram given shows the number of people owing the different number of books. The total number of people surveyed is



- (a) 33
- (b) 27
- (c) 29
- (d) 35

28. In the Class Intervals 10 – 20 , 20 – 30, etc. 20 lies in the class _____ :

- (a) 10 – 20
- (b) 20 – 30
- (c) 20 - 25
- (d) 15 - 20

29. A parallelogram PQRS is constructed with sides QR = 6 cm, PQ = 4 cm and $\angle R = 90^\circ$. Then PQRS is

- (a) Square
- (b) Rhombus
- (c) Rectangle
- (d) Trapezium

30. How many measurements are required to construct a Quadrilateral uniquely ?

- (a) 5
- (b) 4
- (c) 6
- (d) 7

Answer Key

1. Answer: a

14. Answer: b

2. Answer: c

15. Answer: b

3. Answer: d

16. Answer: a

4. Answer: b

17. Answer: d

5. Answer: d

18. Answer: b

6. Answer: b

19. Answer: c

7. Answer: a

20. Answer: a

8. Answer: c

21. Answer: d

9. Answer: a

22. Answer: b

10. Answer: d

23. Answer: d

11. Answer: c

24. Answer: c

12. Answer: b

25. Answer: c

13. Answer: c

26. Answer: b

27. Answer: d

29. Answer: c

28. Answer: b

30. Answer: a