

INTERNATIONAL INDIAN SCHOOL, RIYADH

WORK SHEET 2017-2018 ACADAMIC YEAR

Std. VII

SUBJECT: MATHEMATICS CHAPTER -3

Data Handling

1. Collection of numbers gathered to give same information is _____.
2. The most common representative value of a group of data is _____.
3. The difference between highest and lowest observation gives ____.
4. The probability of an impossible event is _____.
5. The probability of sure event is _____.
6. In 'n'trials of a random experiment, if an event E happens m, times, then $p(E)$ is equal to _____.
7. The _____ of a set of observation is the observation that occurs most often.
8. Five of 45 students in a class are left handed. What is the probability of randomly selecting a left handed student?
9. In a sample of 365 items, 125 are found to be defective. Find the probability of an item selected at random being? A) Defective b) not defective.
10. The following table shows the blood groups of 30 students of a class

Blood group	A	B	O	AB
Number of students	9	7	11	3

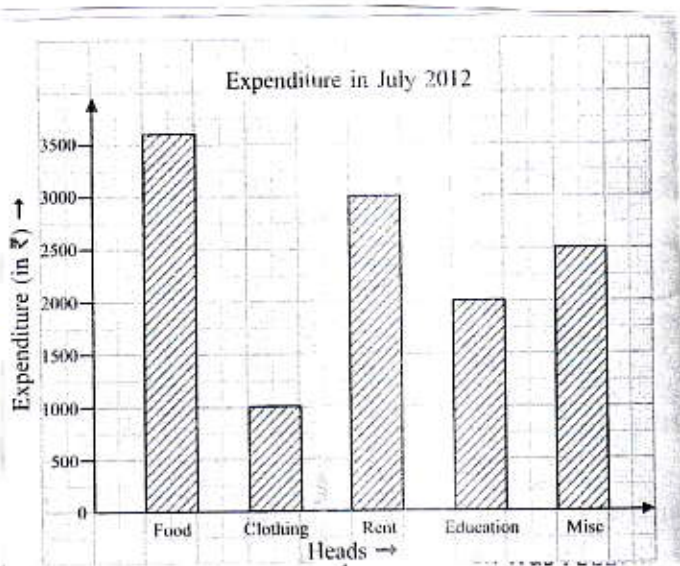
One student of the class is chosen at random. What is the probability that chosen student has the group.

a) A group B) AB group

11. The following table shows the favorite sports of 200 students of a school. Represent the data in a bar graph

Sport	Badminton	Swimming	Cricket	Football	Tennis
Number of students	25	50	65	20	40

12. Study the following bar graph and answer the questions given below?



- What is the expenditure on rent?
 - On which item is the expenditure maximum and how much?
 - What is the expenditure on education and clothing together?
 - On which item is the expenditure minimum?
13. The mean of six numbers 6,8,5,7, x, and 4 is 7. Find the value of x?
14. The rain fall in a city on 7 days of a week was recorded as follows?

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
1.2	10.3	5.5	0.0	13.5	7.0	1.0

- Find the range of the rain fall in the given data.
 - Find the mean rainfall for the week?
 - On how many days was the rainfall less than the mean rainfall?
15. Find the mean of a) the first seven natural numbers? B) The first five prime numbers?
c) The first 5 multiple of 3 d) all factors of 20.
16. Organize the following marks in a class assessment in a tabular form?
7,6,5,8,7,3,1,1,2,3,4,5,7,7,8,3,1,7.
a) Which number is the highest b) what is the range of the data?
17. When a die is thrown, what is the probability of getting a) 7 b) 5.
18. Given below is the data of the mode of transport used by children (boys and girls) to go to school.

Represent it a double bar graph.

Mode of Transport	School bus	Walking	Bicycle	Other vehicles
Number of girls	120	42	35	100
Number of boys	74	95	120	81

- Which mode of transport is most preferred by girls?
 - What percent of boys of the total number of boys use the school bus?
 - Find the ratio between the number of girls using bicycle and the number of boys using bicycle.
19. The following table shows the number of books which are meant for only reference in the library.

Subject	Languages	Mathematics	Science	Commerce
Number of books	300	450	500	250

Draw a bar graph for the above data.

20. A boy scores the following marks in various class tests (marked out of 20) during the year 19, 12, 16, 14, 13, 16, 17, 10, 16.
- What is the median marks?
 - Calculate the mean marks?
 - What is the modal marks?

Answers

1) data	2) mean	3) range	4) 0	5) 1	6)	7) mode
8) $\frac{1}{9}$	9) a) $\frac{25}{73}$ b) $\frac{48}{73}$	10) a) $\frac{3}{10}$ b) $\frac{1}{10}$	11)	12) a) ₹ 3000 b) food, ₹ 3600 c) ₹ 3000 d) clothing	13) $x = 12$	14) a) 13.5mm b) 5.5mm c) Monday, Thursday & Sunday
15) a) 4	16) a) 8	17) 6	18)	19)	20) a)	

b) 5.6, c) 9	b) 7				15	
d) 7					b) 14.09	
					c) 16	

Best of luck

