



INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics *Worksheet- Data Handling*

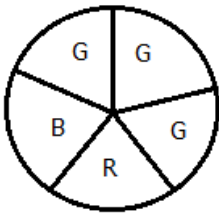
22-05-20

OBJECTIVE TYPE (1 Mark)

Q.1. Which measure of central tendency best represents the data of the most popular politician after a debate?

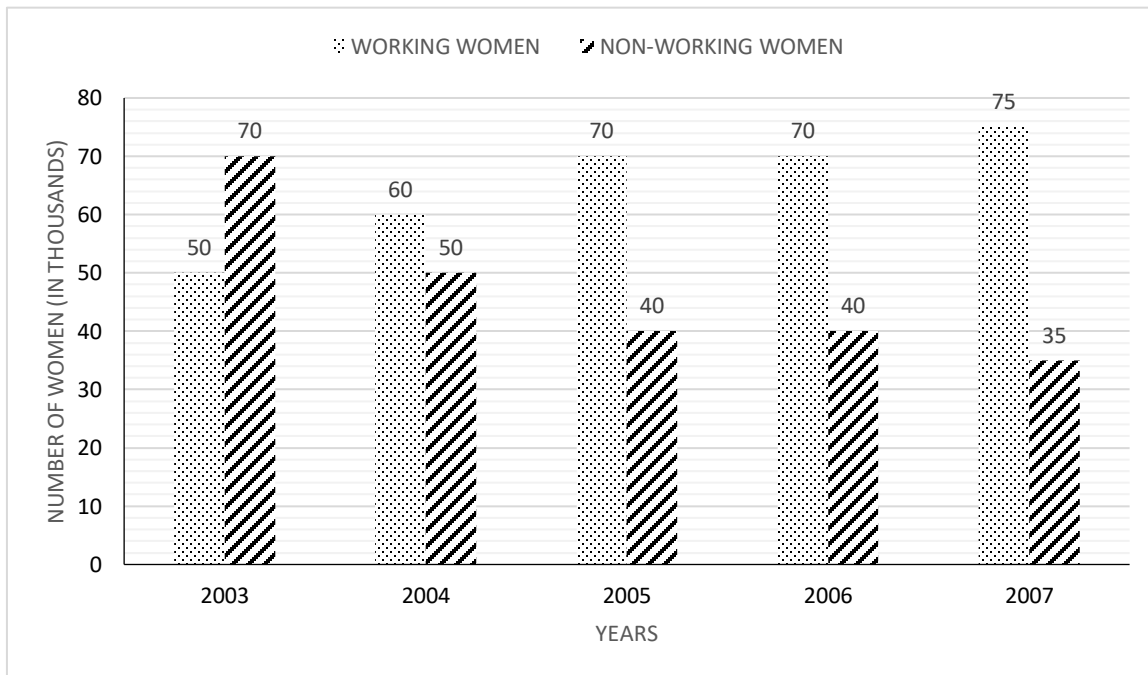
- | | | | | | | | |
|---|------|---|--------|---|------|---|----------------|
| A | Mean | B | Median | C | Mode | D | None of these. |
|---|------|---|--------|---|------|---|----------------|

Q.2. If you have a spinning wheel with 3 green sectors, 1 blue sector and 1 red sector, what is the probability of getting a green sector?



- | | | | | | | | |
|---|---------------|---|---------------|---|---------------|---|---------------|
| A | $\frac{1}{5}$ | B | $\frac{2}{5}$ | C | $\frac{3}{5}$ | D | $\frac{4}{5}$ |
|---|---------------|---|---------------|---|---------------|---|---------------|

Q.3. In which year was the difference between the working and non-working women the least?



- | | | | | | | | |
|---|------|---|------|---|------|---|------|
| A | 2003 | B | 2004 | C | 2005 | D | 2007 |
|---|------|---|------|---|------|---|------|

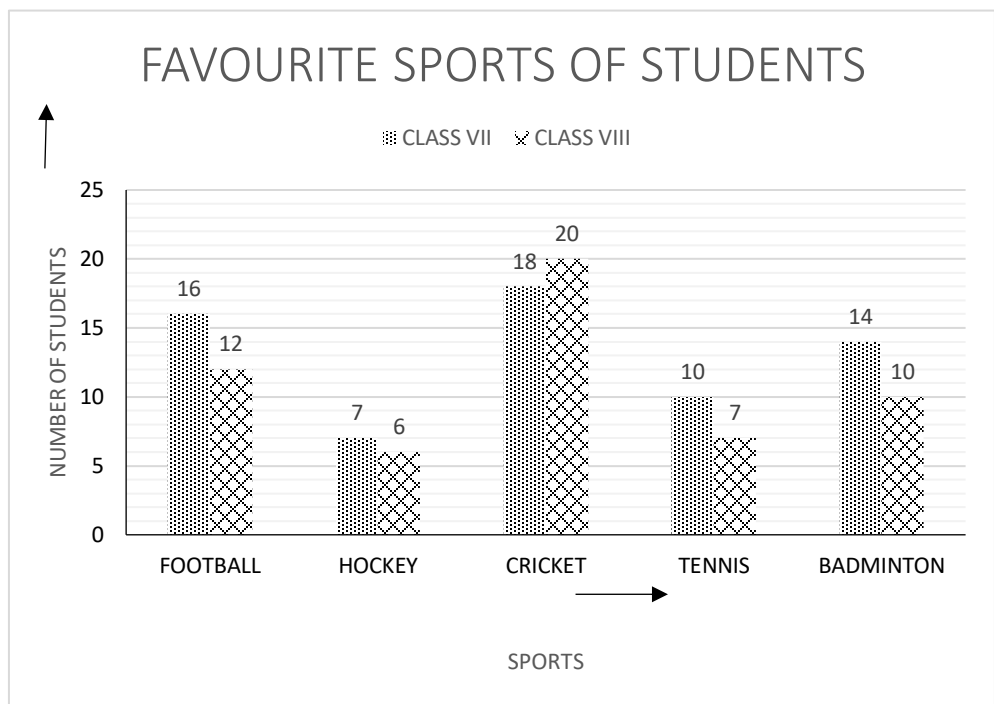
Q.4.	Let x, y, z be three observations. The mean of these observations is															
	A	$\frac{x-y-z}{3}$	B	$\frac{x+y+z}{3}$	C	$\frac{x \times y + z}{3}$	D	$\frac{x \times y \times z}{3}$								
Q.5.	The number of trees in different parks of a city are 33, 38, 48, 33, 34, 34, 33 and 24. The mode of this data is															
	A	24	B	34	C	33	D	48								
Q.6.	_____ helps to compare two collections of data at a glance.															
	A	Bar graph	B	Double Bar graph	C	Histogram	D	Probability								
Q.7.	A coin is flipped to decide which team starts the game. What is the probability that your team will start?															
	A	1	B	$\frac{1}{3}$	C	$\frac{1}{4}$	D	$\frac{1}{2}$								
Q.8.	The range of the data: 21, 6, 17, 18, 12, 8, 4, 13 is															
	A	17	B	12	C	8	D	15								
Q.9.	The median of the data: 3, 4, 5, 6, 7, 3, 4 is															
	A	5	B	3	C	4	D	6								
Q.10	Some integers are marked on the board. What is the range of these integers?							<table style="margin: auto; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 2px 10px;">0</td> <td style="padding: 2px 10px;">15</td> </tr> <tr> <td style="padding: 2px 10px;">-11</td> <td style="padding: 2px 10px;">-17</td> </tr> <tr> <td style="padding: 2px 10px;">6</td> <td style="padding: 2px 10px;">+20</td> </tr> <tr> <td style="padding: 2px 10px;"></td> <td style="padding: 2px 10px;">-4</td> </tr> </tbody> </table>	0	15	-11	-17	6	+20		-4
0	15															
-11	-17															
6	+20															
	-4															
	A	31	B	37	C	20	D	3								
Fill in the blanks(1mark)																
Q11.	The probability of an event which is certain to happen is _____.															
Q12.	The difference between the highest and the lowest observations of a data is called _____.															
Q13.	Median is one of the observations in the data if number of observations is _____.															

Q14.	From 20 tickets marked with numbers from 1 to 20 placed in a bag, one ticket is drawn at random. The probability of getting a number which is multiple of 3 is _____ .
Q15.	The median of the data: 3, 0, 5, 14, 7 is _____.
SECTION B (2 marks)	
Q16.	Find the mean of the first five even natural numbers.
Q17.	<p>Following cards are put facing down:</p> <div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 10px;">A</div> <div style="border: 1px solid black; padding: 2px 10px;">E</div> <div style="border: 1px solid black; padding: 2px 10px;">I</div> <div style="border: 1px solid black; padding: 2px 10px;">O</div> <div style="border: 1px solid black; padding: 2px 10px;">U</div> </div> <p>What is the probability of drawing out a card marked</p> <p>(a) A ?</p> <p>(b) a consonant ?</p>
Q18.	The age in years of 12 teachers in a school are: 35, 37, 33, 38, 52, 48, 45, 40, 46, 55. Find the range of the ages of the teachers.
Q19.	<p>Given below are heights of 9 boys of a class measured in cm: 128, 144, 146, 143, 136, 142, 138, 129, 154. Find:</p> <p>(a) The height of the tallest boy.</p> <p>(b) The height of the shortest boy.</p> <p>(c) The median height of the boys.</p>
Q20.	<p>Calculate the mean of the marks obtained by 10 students in a test.</p> <p>Marks: 13, 16, 14, 9, 18, 11, 7, 10, 12, 20.</p>
SECTION C (4marks)	
Q21.	<p>The following are the weights (in kg) of 10 people. 70, 62, 52, 56, 62, 84, 75, 57, 62, 60.</p> <p>a) Find the mean of the weights of the people.</p> <p>b) How many people weigh above the mean weight?</p> <p>c) Find the range of the given data.</p>
Q22.	<p>Represent the below information in a frequency distribution table and answer the following questions: 7, 4, 3, 5, 6, 3, 3, 2, 4, 3, 4, 3, 3, 4, 4, 3, 2, 2, 4, 3.</p> <p>Find mode.</p>
Q23.	<p>A die was thrown 15 times and the outcomes recorded were 5, 3, 2, 1, 2, 6, 4, 2, 2, 3, 1, 5, 6, 1, 2</p> <p>Find the mean, median and mode and Range of the data.</p>

Q24. The following table shows the average intake of nutrients in calories by rural and urban groups in a particular year. Using a suitable scale for the given data, draw a double bar graph to compare the data.

FOOD STUFF	PULSES	FRUITS	MILK	FATS AND OILS	JAGGERY
RURAL	35	45	70	10	20
URBAN	45	75	110	55	30

Q25. Study the double bar graph given below and answer the following questions:



- Which sport is liked the most by Class VIII students?
- How many students of Class VII like Hockey and Tennis in all?
- Which was the least preferred sport by the students of Class VII?
- For which sport is the number of students of Class VII less than that of Class VIII?

Answers	1	C Mode	2	C $\frac{3}{5}$	3	B 2004	4	B $\frac{x+y+z}{3}$
	5	C 33	6	B Double Bar graph	7	D $\frac{1}{2}$	8	A 17
	9	C 4	10	B 37	11	1	12	Range
	13	Odd	14	$\frac{3}{10}$	15	5	16	6
	17	a) $\frac{1}{5}$ b) 0	18	22	19	a) 154 cm b) 128 cm c) 142 cm	20	13
	21	a) 64 kg b) 3 c) 32 kg	22	3	23	Mean = 3 Median = 2 Mode = 2 Range = 5	25	a)Cricket b)17 c)Hockey d)Cricket