

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics Worksheet 2-with answers DATA HANDLING

<mark>07-12-2020</mark>

| | | | | | OBJE | CTIVE TYPE | (1 Ma | rk) | | |
|------|---|--|--------------------|-----------------|---------------|-------------|---------------|-------------|---------------|----------------|
| Q.1. | W | What is the upper limit of the class 225-250 | | | | | | | | |
| | A | 225 | | В | | 25 | C | 250 | D | 50 |
| Q.2. | A shows the relationship b | | | | hip be | tween a who | ole and | d its part. | | |
| | A | Frequen | Frequency B | | Pie chart | | С | Histogram | D | Ungrouped data |
| Q.3. | . Tally marks are used to find which of the following? | | | | | | L | | | |
| | A | Frequen | су | В | upper limit | | С | lower limit | D | Class marks |
| Q.4. | The width or size of the class interval 30-40 is: | | | | | | | | | |
| | A | 30 | | В | 40 | | С | 10 | D | 70 |
| Q.5. | | Years | | nbers orkers | | | | | | |
| | | 1992 - 93 | | 25 | | | | | | |
| | | 1993 - 94 | | 18 | | | | | | |
| | | 1994 - 95 | | 11 | | | | | | |
| | | 1995 - 96 | | 30 | | | | | | |
| | Which class has the lowest frequency? | | | | | | | | | |
| | A | 1993-94 | | В | 1992 | -93 | С | 1994-95 | D | 1995-96 |
| Q.6. | W | Which of the following is the probability of sure event? | | | | | | | | |
| | Α | 0 | | В | 1 | | С | 10 | D | 2 |
| Q.7. | 7. A dice is thrown, the probability of getting number 5 is: | | | | | | | | | |
| | $\mathbf{A} \qquad \frac{1}{5}$ | | В | | $\frac{1}{6}$ | С | <u>5</u> 6 | D | $\frac{4}{5}$ | |

| Q.8. | In | In grouped data, each of the group is called: | | | | | | | | | |
|------|--|--|---|-----------------------|-------|---------------|---|--------------------------------------|--|--|--|
| | A | Class interval | В | Collection of data | С | frequency | D | Grouped frequency distribution | | | |
| Q.9. | Th | The difference between the upper-class limit and lower-class limit of a class interval is called: | | | | | | | | | |
| | Α | width | В | frequency | С | histogram | D | event | | | |
| Q.10 | If a | If a coin is tossed 20 times and tail appeared 5 times. what is the probability of getting a tail? | | | | | | | | | |
| | A | $\frac{2}{5}$ | В | $\frac{1}{5}$ | С | $\frac{1}{4}$ | D | $\frac{5}{10}$ | | | |
| | Fill in the blanks(1mark) | | | | | | | | | | |
| Q11. | gives the number of times that a particular entry occurs in a frequency distribution table. | | | | | | | | | | |
| Q12. | In | In the class interval, 10-20, 10 is called the | | | | | | | | | |
| Q13. | A Chocolate | | | | | | | | | | |
| | The above pie chart shows the different types of ice-creams liked by the students of a school. If 1000 students were surveyed, how many students like vanilla ice cream? | | | | | | | | | | |
| Q14. | Wł | What is the probability to get a vowel in the word 'mathematics'? | | | | | | | | | |
| Q15. | Wł | When two coins are tossed together. The possible outcomes are | | | | | | | | | |
| | | | | SECTION B (2 n | narks |) | | | | | |
| Q16. | A survey conducted on the number of hours spent by students per week on reading. Answer the following questions: | | | | | | | | | | |

| | a) Which class interval has maximum number of students?b) How many students read more than 5 hours? | | | | | | | | | |
|------|---|-----------------------|---|--|--|--|--|--|--|--|
| Q17. | A spinning wheel with 6 green sectors, 2 blue sector and 2 red sector, what is the probability of getting a green sector? What is the probability of getting a blue sector? | | | | | | | | | |
| Q18. | 8. A dice is rolled once. What is the probability that the number on the top will be | | | | | | | | | |
| | a) Even number? b) A number less than 5? | | | | | | | | | |
| Q19. | Weight of students (in kg.) | Number of students | | | | | | | | |
| | 30-40 | 6 | | | | | | | | |
| | 40-50 | 17 | | | | | | | | |
| | 50-60 | 13 | | | | | | | | |
| | 60-70 | 4 | | | | | | | | |
| | A frequency table is given that the weight of students in class VIII. Answer the following questions: 1) Which class interval has the maximum number of students? 2) What is the upper-class limit of third-class interval? 3) What is the width of the class interval? 4) Which class interval has the lowest frequency? | | | | | | | | | |
| Q20. | Household expenditure OTHER FOOD 35° CLOTHES 120° 55° FOOD 55° TRANSPORT POWER LEISURE | | | | | | | | | |
| | Given pie chart shows Ajay's family expenditure in a month. If the expenditure on food is Rs. 300, What is the expenditure on transport? | | | | | | | | | |
| | | | SECTION C (4marks) | | | | | | | |
| Q21. | Prepare a group intervals as 50– 114, 108, 100, 9 | 100). | listribution table for the following data: (taking one of the class | | | | | | | |
| | 109, 117, 119, 126, 131, | | | | | | | | | |
| | 136, 143, 156, 169, 182, | | | | | | | | | |
| | 195, 207, 219, 235, 118. | | | | | | | | | |

| Q22. | Maths 126° 108° 36° Social studies | | | | | | | | | |
|------|---|--------------------|---|--|--|--|--|--|--|--|
| | A school has a strength of 7200 students. Observe the above histogram and answer the following question: | | | | | | | | | |
| | a) What is the number of students interested in mathematics? b) How many students are interested in social studies? c) Which subject is liked by most of them? d) What is the number of students interested in languages? | | | | | | | | | |
| Q23. | 23. y y y y y y y y y y y y y | | | | | | | | | |
| | Observe the above histogram and answer the following: a) If the pass mark is 20, how many students failed in the test? b) How many students secured marks between 30 and 50? c) How many students secured more than 80% marks? d) What is the number of students, who got less than 10 marks? | | | | | | | | | |
| Q24. | The following data sh a pie chart for the fol | | class VIII students in an art competition. Draw | | | | | | | |
| | GRADE | NUMBER OF STUDENTS | | | | | | | | |
| | А | 40 | | | | | | | | |
| | В | 60 | | | | | | | | |
| | С | 20 | | | | | | | | |
| | D | 60 | | | | | | | | |

| Q25. | Draw a histogram for the following data: | | | | | | | | | |
|---------|--|--|----------|----|--|-------|--|----|----------------------|--|
| | Class interval 140-1 | | 140-145 | 5 | 145-150 | 150-1 | 155 155-160 |) | 160-165 | |
| | Fre | equency | 8 | | 12 | 18 | 10 | | 5 | |
| | | | | | | | | | | |
| | Answers | | | | | | | | | |
| | 1 | 250 | | 2 | Pie chart | 3. | Frequency | 4 | 10 | |
| | 5 | 1994 - 95 | | 6 | 1 | 7 | $\frac{1}{6}$ | 8 | Class interval | |
| srs | 9 | width | | 10 | $\frac{1}{4}$ | 11 | Frequency | 12 | Lower class limit | |
| Answers | 13 | 250 | | 14 | $\frac{4}{11}$ | 15 | НН, НТ, ТН, ТТ | 16 | a)4-5 b) 8+6=14 | |
| 7 | 17 | a)P(green)= $\frac{6}{10}$ = $\frac{3}{5}$ b)P(blue)= $\frac{2}{10}=\frac{1}{5}$ | | 18 | a) P(even) = $\frac{3}{6}$ = $\frac{1}{2}$ b) P(less than 5) = $\frac{4}{6} = \frac{2}{3}$ | 19 | 1) 40-50 2) 60 3) 10 4) 60-70 | 20 | Rs. 125 | |
| | 22 | a) 2520 b) 720 c) Math d) 1800 | nematics | 23 | a) 12+6=18 b) 24+18=42 c) 18 d) 6 | | | | | |
