INDIAN SCHOOL AL WADI AL KABIR

Pre-Mid-Term Examination (2024-25)

Sub: MATHEMATICS

Class: VII | Set - I | Max Marks: 30

Date: 30/05/24 | Marking Scheme | Time: 1 hour

Instructions:

Section A: Multiple Choice Questions (Q.1 to Q.8)

Section B: Source-based questions (Q.9 to Q.12)

Section C: Long Answer Questions (Q.13 to Q.16)

Section D: 4 Marks question & Case-study (Q.17 to Q.18)

Section A: Multiple Choice Question (Q.1 to Q.8) of **1** mark each.								
1.	Find the product of 3 and $\frac{2}{5}$.							
	A	$1\frac{1}{5}$						
2.	What is the mode in this set of numbers? 7, 14, 20, 3, 7, 3, 2, 14 and 7							
			B	7				
3.	The weight of a box of Mangoes is 5.250 Kg. Find the weight of 100 such boxes.							
					C	525.0 kg		
4.	Laren had 72, 94, 108, 60 and 125 test run scores against the England cricket team. What is the RANGE of his test run scores?							
			B	65				
5.	A bus can cover 52.5 km in one hour. How much distance can it cover in 5 hours?							
	A	262.5 km						
6.	600 + 2 + $\frac{7}{10}$ + $\frac{4}{100}$ can be written in decimal form as:							
					C	602.74		
7.	Sam gave a wooden board of length $\frac{6}{5}$ m to a carpenter for making a shelf. The carpenter sawed off (cut off) a piece of $\frac{1}{3}$ m from it. What is the length of the remaining piece of wood?							
							D	$\frac{13}{15}m$
8.	The reciprocal of $2\frac{1}{5}$ is							
	A	$\frac{5}{11}$						

Section B: Source-based questions (Q.9 to Q.12) of 1 mark each.

The table below gives the data of approximate tourists who visited 4 hill stations over two consecutive years in the summer season. Study the table and answer the questions that follow:

Hill Stations	Nainital	Shimla	Manali	Mussoorie
2008	40,000	52,000	37,000	58,000
2009	48,000	45,000	42,000	62,000

9. Which hill station was visited by the maximum number of tourists in the year 2008?

B Mussoorie

10. How many more tourists visited Manali in the year 2009 as compared to 2008?

C 5,000

11. Calculate the total number of tourists who came to Shimla in the two summer seasons.

A 97,000

12. Find the ratio of the number of tourists who visited Nainital in the year 2008 to the number of tourists who visited in the year 2009.

D 5:6

Section C: Long Answer Questions (Q13 to Q.16).

13. Preethi adds $\frac{5}{4}$ spoons of sugar in one cup of coffee. How many spoons of sugar will she require to make $\frac{24}{5}$ cups of coffee? (2m)

Sol: In one cup of coffee Preethi adds $\frac{3}{4}$ spoons of sugar *Concept of multiplication ½*

$\therefore$ total number of spoons of sugar required = $\frac{5}{4} \times \frac{24}{5} = \frac{120}{20} = 6\ spoons$ (½+½+½)

14. The perimeter of a square is 120.4 cm. Find the length of a side of the square. (2m)

Sol: The perimeter is 120.4cm *Concept of divisions ½m*

$\therefore\ the\ length\ of\ a\ side = 120.4 \div 4 = \frac{1204}{10} \times \frac{1}{4} = 30.1cm$ (½+½+½)m

15. A sweet shop consumes 30.5 litres of milk in the morning and 40.7 litres in the evening. If the cost of milk is ₹40.5 per litre, find the total cost of milk. (3m)

Sol: consumption of milk in morning + evening = 30.5 + 40.7kq = 71.2 kg ----------1m

∴ The cost of milk =71.2kg × ₹40.5 *Concept of multiplication* ---------*1m*

= ₹2883.6 (½+½) m

16. The speeds of 9 two-wheelers are given below to the nearest km per hour. (3m)

45, 65, 56, 67, 72, 65, 65,42 and 45.

Sol: (i) Arithmetic Mean : $\frac{sum\ of\ observation}{no.\ of\ observation}$ ----------(½)

$= \frac{45+65+56+67+72+65+65+42+45}{9}$ ----------(½)

$\frac{522}{9} = 58$ ----------(½ + ½)

(ii) Find the median of the given observations.

Ascending order:42,45, 45, 56, 65, 65, 65, 67, 72----------(½)

Median =65 ----------(½)

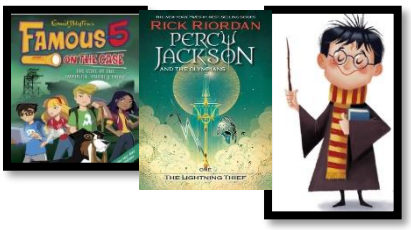
Section D: Long Answer Question of 4 marks & Case study (Q.17 & Q.18).

17. Draw a double bar graph by choosing an appropriate scale to show the sales of Jeans and T-shirts in a readymade garment shop during the festive season. (4m)

Product\Month	October	November	December	January
Jeans	450	350	650	800
T-Shirts	550	450	500	425

Each month (½ + ½) × 4

18. **Case Study:** In a student book club, there are 240 members. Out of the total members $\frac{5}{8}$ enjoy reading "Percy Jackson" books, $\frac{1}{8}$ enjoy reading "Famous Five" books and the remaining like reading "Harry Potter" books.



Based on the above information, answer the following questions

(i) How many students like to read "Percy Jackson" books?

$\frac{5}{8} \times 240 = 150$ ---------- (½ + ½)

(ii) How many students like to read "Famous Five" books?

	$\frac{1}{8} \times 240 = 30$ ---------- (½ + ½) (iii) What fraction of the total number of students like to read "Harry Potter" books? students like to read "Harry Potter" books = 240 - (150 +30) = 60 ---------(½ + ½) Fraction $= \frac{60}{240} = \frac{1}{4}$ ---------- (½ + ½)

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