

INDIAN SCHOOL AL WADI AL KABIR

REVISION WORKSHEET

Post Mid-Term Examination (2023-24)

Class: VIII

Sub: MATHEMATICS

Section A : Multiple Choice Question (Q.1 to Q.6) of 1 mark each											
1.	What digit will be at the "ones" place of the cube of 12?										
	A	9	В	4	С	8	D	0			
2.	The smallest number by which 6912 should be divided so that the quotient obtained is a perfect cube is										
	A	4	В	8	С	3	D	5			
3.	A box of pencils is divided among 50 children so that they will get 4 pencils each. How many would each get if the number of children is reduced by 10?										
	A	9	В	6	С	7	D	5			
4.	The area of the given quadrilateral PQRS is										
	A	1000 cm ²	В	100 cm ²	С	900 cm ²	D	180 cm ²			
5.	The edge of a cube is 36 cm, how many cubes of side 9 cm can be formed from this cube?										
	A	36	В	64	С	81	D	100			
6.	If "	a" varies directly with	"b"	, the value of a $=18$ v	vher	n b= 24. Find the va	lue	of `a' when b= 4.			
	Α	3	В	5	С	4	D	1			

7	Section B: Source-based questions (Q.7 to Q.11) of 1 mark each Ramesh, Nitin, and Shaan prepared for their exam by playing quiz based on the cubes of natural numbers.									
7.	Kamesn asked Niun which of the following humber is not a perfect cube?A2744B1728C2700D729									
8.	Which of the following is the cube of an odd number?									
	A	27	В	999	С	1000	D	675		
9.	Nitin asked Shaan what the value of 'x' would be if $8x^3 = 216$.									
	Α	7	В	9	С	3	D	8		
10.	Which is the smallest number that must be multiplied by 5400 to make it a perfect cube?									
	A	4	В	5	С	6	D	2		
11.	Nitin asked Shaan to tell the cube root of 91125 by estimation. Choose the correct answer for Shaan.									
	Α	35	В	55	С	45	D	23		
Section C: Long Answer Questions (Q12 to Q.15)										
12.	Find	Find the capacity of the water tank, in litres, whose dimensions are 4 m, 3 m and 8 m.								
13.	Eva	Evaluate: $\sqrt[3]{27} \times \sqrt[3]{8000} \times \sqrt[3]{64}$								
14.	The walls and ceiling of a room are to be plastered. The length, breadth and height of the room are 4 m, 5 m, and 300 cm respectively. Find the cost of plastering at the rate of \gtrless 80 per m ² .									

15.	Anupama records the distance covered and time taken during her daily morning walks for 5 consecutive days.								
	Distance (in metres) x	1000	а	b	3000	d			
	Time (in minutes) y	16	30	24	с	40			
	Find the value of missing a, b, c and d.								
Section D: Case study (Q.16 & Q.17) of 4 marks each									
16.	 Case Study 1: Mrs. Sharma ran a hostel for college students nearby. It was famous for its cleanliness and discipline. Based on the above information answer the following questions. 1) There are 125 students in a hostel. Food provision for them is for 16 days. How long will these provisions last, if 75 more students join the group? 2) 24 fans are fixed in 12 rooms. How many fans are required in 24 rooms? 3) On Every festival occasion, Mrs. Sharma distributes sweets to the students. If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of children is reduced by 4? 4) 72 beds are arranged in 4 dormitories. How many dormitories do the hostel have if there 								
17.	 Case Study 2: Anoop started renovating grandparent's house in a village, he constrution but there was a severe shortage of warea. To address this issue, he discussed the with his friend and they both decided to dig The well would be 20 meters deep and 14 minimeter. Based on the above information answer the 1) If the dimension of the new room is 24m room. 	his ucted a new vater in the ne matter g a well. meters in e following n × 30m ×	questions 4m. Find	s. the tota	al surface	e area of the	e		

2) If the cost of painting is ₹50 per metre square. Find the cost of painting the four walls of the new room.

3) What will be the formula for the volume of earth dug out of the well?

4) How much earth (Volume) will be dug out if?

Answer Key

Q1	С	Q5	В	Q9	С	Q13	240	Q17	1872m ³	
Q2	А	Q6	А	Q10	В	Q14	₹7520		₹21,600	
									πr^2 h	
									3080m ³	
Q3	D	Q7	С	Q11	С	Q15	1875, 1500, 48, 2500			
Q4	В	Q8	A	Q12	96000L	Q16	10, 48, 6, 20			