

## INDIAN SCHOOL AL WADI AL KABIR (2023-24)

Class VIII, Mathematics Worksheet- MENSURATION

Multiple Choice Questions (1 Mark)							
The area of a trapezium is 1080 cm <sup>2</sup> . If the lengths of its parallel sides are 55.6 cm and							
34.4 cm. Find the distance between them.							
A	20cm	В	18cm	С	30cm	D	24cm
If the lateral area of a cube is 144 square centimetres, can you find the length of its side?							
A	6cm	В	9cm	С	4cm	D	14cm
A matchbox measures 4cm $\times$ 2.5cm $\times$ 1.5cm. What will be the volume of a packet containing 12 such boxes?							
A	180m <sup>3</sup>	В	170cm <sup>3</sup>	С	540Cm <sup>3</sup>	D	180cm <sup>3</sup>
A vessel in the form of a right circular cylinder is half full of paint. Its base radius is 6cm and its height is 80cm. Find the volume of paint in a vessel.							
A	5760πcm <sup>3</sup>	В	1290πcm <sup>3</sup>	С	1440πcm <sup>3</sup>	D	1152πcm <sup>3</sup>
Water is poured into a cuboidal reservoir at the rate of 120 litres per minute. If the volume of the reservoir is 216m <sup>3</sup> , find the number of hours it will take to fill the reservoir.							
A	50 hours	В	30 hours	С	60 hours	D	70 hours
A rectangular Aluminum sheet of dimensions 44cm x 14cm is folded without overlapping to make a cylinder of height 14cm. Find the diameter of the cylinder so formed.							
Α	14 cm	В	24 cm	С	18 cm	D	7 cm
Find the area of the given quadrilateral.							
A	26cm <sup>2</sup>	В	27cm <sup>2</sup>	С	29cm <sup>2</sup>	D	25cm <sup>2</sup>
The dimensions of a godown are 40m, 25m, and 10m. If it is filled with cuboidal boxes each of dimensions $2m \times 2m \times 1m$ , calculate the number of boxes filled in the godown.							
A	2,500	В	2,000	С	4,000	D	8,000
	34. A If the A A A Con A A A Con A A Con A A Con A A Con Con A Con Con A Con Con Con Con Con Con Con Con	34.4 cm. Find the disA20cmIf the lateral area of aA6cmA6cmA180m <sup>3</sup> A $\sim$ ssel in the form a and its height is 80cmA5760 $\pi$ cm <sup>3</sup> Water is poured into of the reservoir is 210A50 hoursA14 cmFind the area of theFind the area of theA26cm <sup>2</sup> The dimensions of a each of dimensions 2	The area of a trapezium is34.4 cm. Find the distanceA20cmBIf the lateral area of a cubA6cmBA6cmBA180m3BA180m3BA5760 $\pi$ cm3BWater is poured into a cub <of 216m3,="" for<br="" is="" reservoir="" the=""></of> A50 hoursA50 hoursBA14 cmBFind the area of the givenFindA26cm2BThe dimensions of a godow each of dimensions $2m \times 3$	The area of a trapezium is 1080 cm <sup>2</sup> . If the 34.4 cm. Find the distance between them. A 20cm B 18cm If the lateral area of a cube is 144 square of A 6cm B 9cm A matchbox measures $4cm \times 2.5cm \times 1.5c$ containing 12 such boxes? A 180m <sup>3</sup> B 170cm <sup>3</sup> A vessel in the form of a right circular cyline and its height is 80cm. Find the volume of A 5760 $\pi$ cm <sup>3</sup> B 1290 $\pi$ cm <sup>3</sup> Water is poured into a cuboidal reservoir at of the reservoir is 216m <sup>3</sup> , find the number of the reservoir is 216m <sup>3</sup> , find the number of A 50 hours B 30 hours A rectangular Aluminum sheet of dimension make a cylinder of height 14cm. Find the d A 14 cm B 24 cm Find the area of the given quadrilateral. A 26cm <sup>2</sup> B 27cm <sup>2</sup> The dimensions of a godown are 40m, 25m each of dimensions $2m \times 2m \times 1m$ , calcular	The area of a trapezium is 1080 cm <sup>2</sup> . If the leng 34.4 cm. Find the distance between them. A 20cm B 18cm C If the lateral area of a cube is 144 square cention A 6cm B 9cm C A matchbox measures 4cm $\times$ 2.5cm $\times$ 1.5cm. W containing 12 such boxes? A 180m <sup>3</sup> B 170cm <sup>3</sup> C A vessel in the form of a right circular cylinder is and its height is 80cm. Find the volume of paint A 5760 $\pi$ cm <sup>3</sup> B 1290 $\pi$ cm <sup>3</sup> C Water is poured into a cuboidal reservoir at the of the reservoir is 216m <sup>3</sup> , find the number of ho A 50 hours B 30 hours C A rectangular Aluminum sheet of dimensions 44 make a cylinder of height 14cm. Find the diamet A 14 cm B 24 cm C Find the area of the given quadrilateral.	The area of a trapezium is 1080 cm <sup>2</sup> . If the lengths of its parallel 34.4 cm. Find the distance between them. A 20cm B 18cm C 30cm If the lateral area of a cube is 144 square centimetres, can you fir A 6cm B 9cm C 4cm A matchbox measures 4cm × 2.5cm × 1.5cm. What will be the voc containing 12 such boxes? A 180m <sup>3</sup> B 170cm <sup>3</sup> C 540Cm <sup>3</sup> A vessel in the form of a right circular cylinder is half full of paint. and its height is 80cm. Find the volume of paint in a vessel. A 5760 $\pi$ cm <sup>3</sup> B 1290 $\pi$ cm <sup>3</sup> C 1440 $\pi$ cm <sup>3</sup> Water is poured into a cuboidal reservoir at the rate of 120 litres p of the reservoir is 216m <sup>3</sup> , find the number of hours it will take to 1 A 50 hours B 30 hours C 60 hours A rectangular Aluminum sheet of dimensions 44cm x 14cm is fold make a cylinder of height 14cm. Find the diameter of the cylinder A 14 cm B 24 cm C 18 cm Find the area of the given quadrilateral. Find the area of the given quadrilateral. Find the area of a godown are 40m, 25m, and 10m. If it is filled each of dimensions 2m × 2m × 1m, calculate the number of boxes	The area of a trapezium is 1080 cm <sup>2</sup> . If the lengths of its parallel side 34.4 cm. Find the distance between them. A 20cm B 18cm C 30cm D If the lateral area of a cube is 144 square centimetres, can you find the A 6cm B 9cm C 4cm D A matchbox measures 4cm × 2.5cm × 1.5cm. What will be the volum containing 12 such boxes? A 180m <sup>3</sup> B 170cm <sup>3</sup> C 540Cm <sup>3</sup> D A vessel in the form of a right circular cylinder is half full of paint. Its and its height is 80cm. Find the volume of paint in a vessel. A 5760 $\pi$ cm <sup>3</sup> B 1290 $\pi$ cm <sup>3</sup> C 1440 $\pi$ cm <sup>3</sup> D Water is poured into a cuboidal reservoir at the rate of 120 litres per of the reservoir is 216m <sup>3</sup> , find the number of hours it will take to fill the area of the given quadrilateral. Find the area of the given quadrilateral. A 26cm <sup>2</sup> B 27cm <sup>2</sup> C 29cm <sup>2</sup> D The dimensions of a godown are 40m, 25m, and 10m. If it is filled will each of dimensions 2m × 2m × 1m, calculate the number of boxes fill

	The area of a rhombus and that of a square are equal. The side of the square is 6 cm If								
Q.9	one of the diagonals of the rhombus is 4cm Then find the length of its other diagonal.								
	A	8cm	В	24cm	С	48cm	D	18cm	
Q.10	What will be the change in the volume of a cube when its side becomes 10 times the								
Q.10	original side?								
		Volume		Volume		Volume		Volume becomes	
	A	becomes 1000	В	becomes 10	С	becomes 100	D	1/1000 times	
		times		times		times		1/1000 times	
Sourc	e-ba	sed question:					A	В	
A farm	er h	as a field that is s	hown	in the figure. Th	е		1	$\mathbf{N}$	
length	th of the side CD= 24 m, AD = 15 m, BC = 13 cm $15 \text{ m}$ $12 \text{ m}$ $12 \text{ m}$ $12 \text{ m}$ $13 \text{ m}$								
AE = E	:F =	12m, both are pe	erpen	dicular to side D0	2.				
Based	on	the above infor	matio	on answer the		D	E	FC	
follow	following questions.								
Q.11	What shape does the park ABCD resemble?								
	Α	Square	В	Rectangle	С	Rhombus	D	Trapezium	
Q.12	If he brought 61 meters of wire to fence the boundary of field ABCD, what is the length of								
<b>Z</b>	side AB?								
	Α	9m	В	10m	С	20m	D	15m	
Q.13	Find the area of the park ABCD.								
	A	190m <sup>2</sup>	В	204m <sup>2</sup>	С	198m <sup>2</sup>	D	28m <sup>2</sup>	
Q.14	If he wants to buy a rhombus-shaped plot with diagonals of 16m and 35m, what is the								
Q.17	plot's area?								
	Α	720m <sup>2</sup>	В	280m <sup>2</sup>	С	240m <sup>2</sup>	D	360m <sup>2</sup>	
Q.15	Find the total cost of spraying the insecticides at the rate of $₹50$ per m <sup>2</sup> in the new plot.						n <sup>2</sup> in the new plot.		
	A	₹14,000	В	₹17,000	С	₹18,720	D	₹12,000	

Case s	study: The ground man (worker) used							
a cylin	a cylindrical roller to level the school							
playgr	playground completely for sports day matches.							
If the	If the diameter of the roller is 2m and the							
length	length of the roller is 7m (use $\pi = \frac{22}{7}$ ).							
Based	Based on the above information answer the following questions.							
Q.16	Find the curved surface area of the roller.							
Q.17	If it takes 500 revolutions to level the playground, find the area of the ground.							
Q.18	If a school plans to construct a new swimming pool that is 8m long, 6m wide, and 3m							
Q.10	deep, what is the volume of mud that needs to be removed to build the pool?							
Q.19	Find the cost of digging a cuboidal pool at $\gtrless$ 80 per m <sup>3</sup> .							
Q.20	The capacity of the overhead cuboidal tank in the school is 50,000 litres of water. Find the							
ų.20	breadth of the tank, if its height and length are 10m and 2.5m respectively.							

	1	D	2	А	3.	D	4	C
ers	5	В	6	А	7	В	8	A
SWe	9	D	10	А	11	D	12	A
Ans	13	С	14	В	15	А	16	44m <sup>2</sup>
	17	22,000m <sup>2</sup>	18	144m <sup>3</sup>	19	₹ 11,520	20	2m
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CLASS/VIII/MENSURATION /OTQ/ SONI S/2023-2024