## MATHEMATICS CLASS VIII FA-3

## Assignment No. 7 Ch 14 Mensuration

1.	Tick the correct alternative :					
i.	The parallel sides of a trapezium are 28 cm and 16 cm and its area is 220 cm <sup>2</sup> . The distance					
	between its parallel sides is					
a)	5 cm	b) 10 cm	c)	15 cm	d)	20 cm
ii.	If an edge of a cube is doubled, then its surface area will become					
a)	twice	b) thrice	c)	times	d)	four times
iii.	The volume of a cube of edge 0.01 m (in cm <sup>3</sup> ) is					
a)	0.000001	b) 1	c)	0.0001	d)	0.001
iv.	The radius of a right circular cylinder is doubled keeping its height same. The ratio between					
	the volumes of new cylinder and the original cylinder is					
a)	3:1	b) 4 : 1	c)	2:1	d)	8:1

- 2. The area of a square is 42.25 m<sup>2</sup>. Find the side of the square. If the tiles measuring 13 cm × 13 cm are paved on the square area, find how many tiles are required for paving it?
- 3. A field in the form of a rhombus has each side of length 64 m and altitude 16 m. What is the side of a square field which has the same area as that of the rhombus?
- 4. The perimeter of the rhombus is 20 cm and the altitude is 4.8 cm. If the length of one diagonal is 6 cm, find the length of the other diagonal.
- 5. The area of a trapezium is 210 cm<sup>2</sup>. The ratio between the lengths of its parallel sides is 3:4. If its height is 6 cm, find the length of both the parallel sides.
- 6. How many cubical blocks of edge 25 cm can be cut from a cubical block of edge 1 m?
- 7. A powder is available in two packs- a tin can with a square base of each side 5 cm and having height 14 cm or one with a circular base of radius 3.5 cm and having height 12 cm. Which of them has greater capacity and by how much?
- 8. Three cubes of edge 10 cm each are placed side by side and stuck together. If the outer surface alone is painted at 2 paise per cm<sup>2</sup>, find the cost of painting.
- 9. A cuboidal tin open at the top has dimensions 20 cm× 16 cm×14 cm. What is the total area of a sheet of metal required to make 10 such tins.
- 10. The circumference of the base of a right circular cylinder is 176 cm and it is 1 m high. Find the lateral surface area of the cylinder.
- 11. A cylindrical pillar is 50 cm in diameter and 3.5 m high. Find the cost of white washing its curved surface at the rate of Rs 1.25 per square metre.
- 12. The diameter of a roller is 80 cm and its length is 126 cm. It takes 750 complete revolutions moving once over to level a playground. Find the area of the playground.
- 13. A room is 5.5 m long, 4 m wide and 3.5 m high. Find the cost of papering its walls with paper 90 cm wide at Rs 1.20 per metre.
- 14. The area of a rhombus is equal to the area of a triangle with base 24.8 cm and altitude 16.5 cm. If one of the diagonals of the rhombus is 22 cm, find the other diagonal.
- 15. A cardboard box open from the top is 1.5 m long, 1.25 m wide and 65 cm deep. Find the area of cardboard required for making the box and the cost of cardboard required at Rs 25 per sq m.
- 16. A rich person wants to donate a rectangular piece of land measuring 500m length and 300m breadth. He distributes his land equally among his 5 servants.

- i. How much area does each servant get?
- Do you believe in donation/charity? If yes, write one incidence when you have donated something.

  Can you name the great Indian leader who started Bhoodan Movement? ii.
- iii.