Class: VIII	Subject: Mathematics	Topic: Mensuration	Worksheet - 16

Do as directed:

Q1: A copper wire of length 44 cm is to be bent into a square and a circle. Which will have a larger area?

Q2: The volume of a box is 13400 cm^3. The area of its base is 670 cm^2. Find the height of the box. Ans: 20 cm

Q3: How many bricks each 25 cm by 15 cm by 8 cm, are required for a wall 32 m long, 3 m high and 40 cm thick? Ans: 12800

Q4: The diameter of a roller is 84 cm and its length is 120 cm. It takes 500 complete revolutions to move once over to level a playground. Find the area of the playground. Ans: 864 cm^2

Q5: 160 m^3 of water is to be used to irrigate a rectangular field whose area is 800 m^2. What will be the height of the water level in the field? Ans: 0.2m

Q6: The parallel sides of a trapezium are 40 cm and 20 cm. If its non-parallel sides are both equal, each being 26 cm, find the area of the trapezium. Ans: 720cm sq

Q7: How many small cubes with edges of 20 cm each can be just accommodated in a cubical box of 2 m edge?

Q8: The dimensions of a godown are 40 m, 25 m and 10 m. If it is filled with. cuboidal boxes each of dimensions 2 m x 1.25 m x 1 m, then Find the number of boxes will be accommodated in the godown. Ans: 4000

Q9: If the radius of a cylinder is tripled but its curved surface area is unchanged, then what will be its height.

Q10: The perimeter of a trapezium is 52 cm and its each non-parallel side is equal to 10 cm with its height 8 cm. Find Its area. Ans: 123 cm sq.