The City School

North Nazimabad Boys Campus

E-Worksheet

Teacher Name: Ambreen Badar Class: 7 Subject: Mathematics

Date: 24th February 2017

Topic: Volume And Surface Area Of Cubes and Cuboids

Q1: The length and the width if a open rectangular tank is 20 m and 15 m respectively. The capacity of a tank is 4500 m^3. Calculate its height.

Q2: Find the total surface area of a solid cube of volume 27cm^3.

Q3: A rectangular tank is 2.5 m long, 1.5 m wide and 3.2 m high. How many liters of water will it hold when full?

Q4: A cuboid which is 9m long, 5 m wide and 3 m high. Find:

a) the volume in cm^3 and

b) the total surface area of the cuboid.

Q5: Find the volume of a rectangular tank measuring 6m by 4m by 2.5m.

Q6: Find the volume of a solid cube given that it's total surface area is 864 cm^2.

Q7: Express 7200 liters in m^3.

Q8: Find the breadth of a cuboid, if volume is 64cm3, length is 2cm and height is 8cm.

Q9: If the surface area of a cube is 294cm^2, find length of a cube.

Q10: An open rectangular tank of length 12 cm, width 8 cm and height 16 cm contains water up to a height of 8 cm. Calculate:

a) The volume of water in liters.

b) The total surface area of the tank that is in contact with the water.

Q11: The length is 8 cm, width is 12 cm and surface area is 426 cm^2 of a cuboid. Find;

a) the height and

b) the volume

Q12: Find the capacity in litres of a rectangular tank if the height of the tank is 0.15 m, length is 0.24 m and width is 0.19 m.

Q13: Find the total surface area of a solid cube of volume 125 cm^3