



# TEST PAPER: MATHEMATICS

Time: 50 Minutes

Class: 8<sup>th</sup> I.C.S.E.

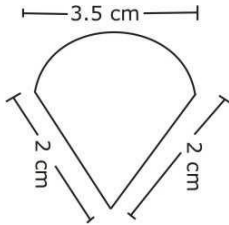
Max. Marks: 30 Marks

Date: 19<sup>th</sup> December, 2018

**Marking Scheme:** Three questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

## Question 1:

- Find the volume of a cube whose surface area is  $64 \text{ m}^2$ .
- Find the perimeter of the given figure:



- A metal cube of edge 12 cm is melted and farmed into three similar cubes. If the edge of two smaller cubes is 6cm and 8cm, find the edge of the third smaller cube (Assuming that there is no loss metal during melting).

## Question 2:

- Three metal cubes whose edge measure 3 cm, 4 cm and 5 cm respectively are melted to form a single cube, find its edge.
- A cylindrical tank has a capacity of  $6160 \text{ m}^3$  find its depth if the diameter of the base is 28 m.
- Find the cost of fencing a rectangular garden at the rate of \$7.50 per m if its length and breadth are in the ratio 4: 3 and its area is  $1200 \text{ m}^2$ .

## Question 3:

- Find the side of a cube whose surface area is  $2400 \text{ cm}^2$ .
- The radius of a cycle wheel is 35 cm. Find the number of turns required to cover a distance of 1540 m.
- The surface area of a cuboid is  $3328 \text{ m}^2$ ; its dimensions are in the ratio 4:3:2. Find the volume of the cuboid.