



# TEST PAPER: MATHEMATICS

**Time: 50 Minutes**

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

**Max. Marks: 30 Marks**

**Date: 9<sup>th</sup> January, 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:

- Lara reads 21 pages of a book every day and finishes the book in 30 days. If he reads 18 pages in a day, in how many days will he finish reading the book?
- 20 workers working for 8 hours a day build the wall in 15 days. How many hours a day will 12 workers take to complete the work in 10 days?
- The weight of 56 books is 7 kg.
  - What is the weight of 90 such books?
  - How many such books weigh 7.5 Kg?

## Question 2:

- 6 pipes are required to fill the tank in 64 minutes. How many pipes are required to fill the tank in 96 minutes?
- A school has 8 periods in a day such that each period is of 35 minutes. If the number of periods is reduced to 7, then how long would each period be?
- Consider a cylindrical vessel whose circular base has a diameter of 14 cm and the height is 2 cm. Find:
  - Volume
  - Curved surface area
  - Flat surface area
  - Total surface area

## Question 3:

- The volume of a cube is  $343 \text{ cm}^3$ . Find its surface area.
- The surface area of a cube is  $1176 \text{ cm}^2$ . Find its volume.
- The volume of the cuboid is  $1296 \text{ m}^3$ . Its length is 24 m and its breadth and height are in the ratio of 3:2. Find the breadth and height of the cube.