YEAR 8 MATHEMATICS
MODULE 1

1. The volume of a cylinder whose radius is 7 cm is 1540 cm^3. Find the height of the cylinder.

2. A football pitch measures 24 m by 20 m. What is the area of the pitch?

3. What is the perimeter of the pitch in question 2 above?

4. A car leaves the check point C to another location D on a bearing of 80°. What is the bearing of C from D?

5. A ladder 15 m long rests against a vertical wall. If the foot of the ladder is 12 m away from the wall, how far up the wall is the ladder?

6. Evaluate: $\dfrac{-2x^2}{x^2 - y^2}$ when x = -2 and y = 3 .

7. Find the value of PQ - 5P if P = 2 and Q = 3.

8. How many prime numbers are there between 1 and 34?

9. The length of a drawn stick is 3.0 cm and the length of the real stick is 15 cm. Find the scale.

10. How many cube sugar of edge 2 cm can be fitted into a cuboid container of dimension 4 cm by 6 cm by 10 cm?