

Sample International Benchmark Test Questions

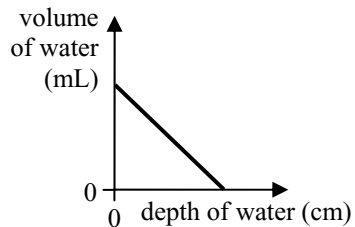
Class 10 Mathematics

- 1 Water is poured into a 5 litre jug.
This table shows how much water is contained in the jug at different water levels.

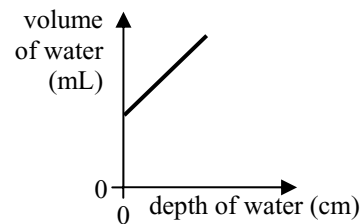
Depth of water (cm)	2	4	6	8
Volume of water in the jug (mL)	300	600	900	1200

Which one of the following is most likely to be the graph for this table?

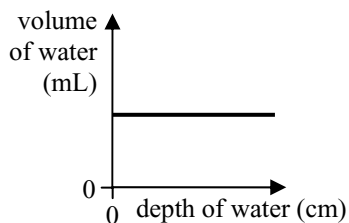
A



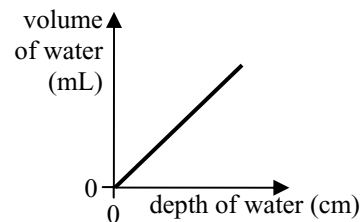
C



B



D



- 2 Water flows over the Niagara Falls at a rate of 2832 cubic metres per second.

What is this rate in cubic metres per day?

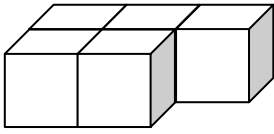
A $2832 \times 60 \times 24$

B $2832 \times 60 \times 60 \times 24$

C $2832 \times \frac{60}{24}$

D $2832 \times \frac{60 \times 60}{24}$

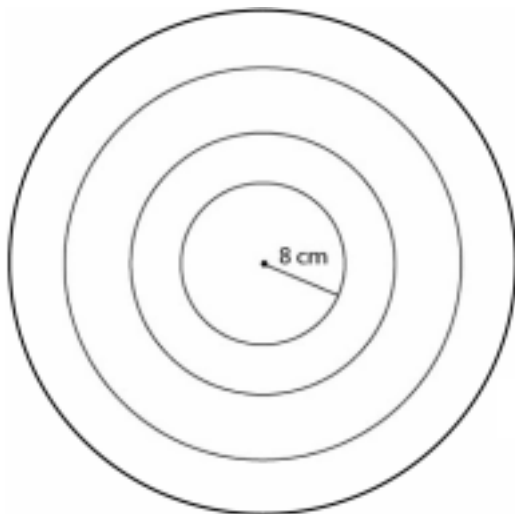
- 3 Fatima made this object using small cubes.



She then enlarged the object by a scale factor of 2.

How many small cubes were in the enlarged object?

- A** 10
B 20
C 32
D 40
- 4 Ameen draws concentric circles.
The smallest circle has a radius of 8 cm.
- The second circle has a radius $1\frac{1}{2}$ times the radius of the first circle.
- The third circle has a radius $1\frac{1}{2}$ times the radius of the second circle.
- The fourth circle has a radius $1\frac{1}{2}$ times the radius of the third circle.



not to scale

What is the ratio of the area of the first circle to the area of the fourth circle?

- A** 4 : 9
B 2 : 3
C 64 : 225
D 64 : 729

Answers to Sample Questions

- 1 D
- 2 B
- 3 D
- 4 D