

MATH NOTES+EXERCISES +EXAMPLES

110

SECONDARY MATHEMATICS

Note:

When the linear scale factor is 2, the volume scale factor is 2^3 .

Volume scale factor = (linear scale factor)³

Example 10

The base radii of two similar cones are 6 cm and 8 cm. If the volume of the smaller cone is 324 cm^3 , find the volume of the larger one.

Solution

The ratio of their radii is $\frac{8 \text{ cm}}{6 \text{ cm}} = \frac{4}{3}$

Linear scale factor is $\frac{4}{3}$.

Therefore, the volume scale factor is $\left(\frac{4}{3}\right)^3 = \frac{64}{27}$

Thus, volume of the larger cone $\frac{64}{27} \times 324 = 768 \text{ cm}^3$

Example 11

A model of a swimming pool is shown in figure 7.30. Find the capacity in litres of the actual swimming pool if its length is 50 metres.

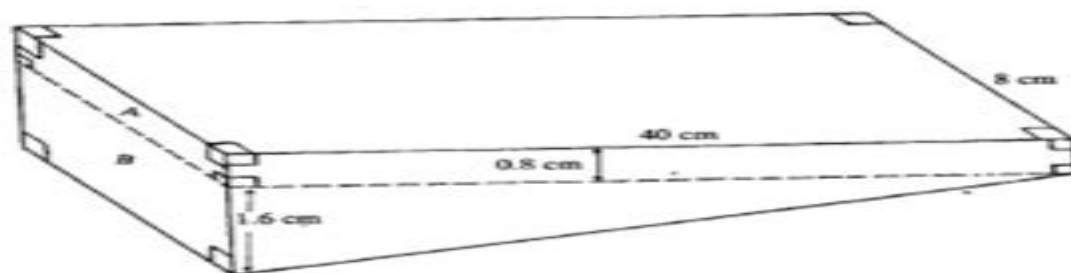


Fig. 7.30

$$\begin{aligned}\text{Volume of A} &= 40 \times 8 \times 0.8 \\ &= 256 \text{ cm}^3\end{aligned}$$

$$\begin{aligned}\text{Volume of B} &= \frac{1}{2} \times 1.6 \times 40 \times 8 \\ &= 256 \text{ cm}^3\end{aligned}$$

Answers For E202financial Math

M Carnoy



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