

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.

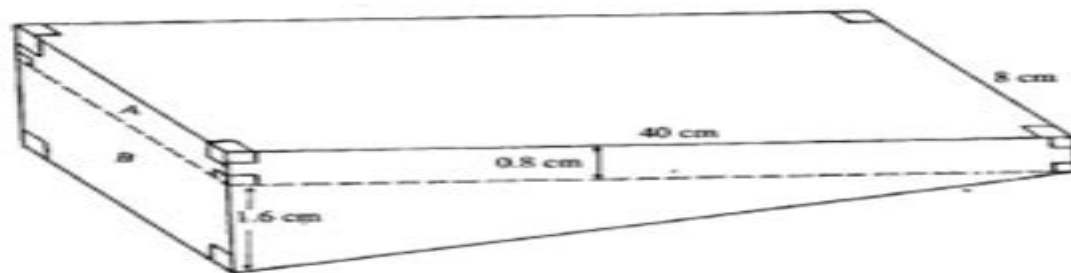


Fig. 7.30

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

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

Answers For E202financial Math

Jianjun Gao



Answers For E202financial Math:

Mathematics and Statistics for Financial Risk Management Michael B. Miller, 2013-12-31 Mathematics and Statistics for Financial Risk Management is a practical guide to modern financial risk management for both practitioners and academics. Now in its second edition with more topics, more sample problems, and more real world examples, this popular guide to financial risk management introduces readers to practical quantitative techniques for analyzing and managing financial risk. In a concise and easy-to-read style, each chapter introduces a different topic in mathematics or statistics. As different techniques are introduced, sample problems and application sections demonstrate how these techniques can be applied to actual risk management problems. Exercises at the end of each chapter and the accompanying solutions at the end of the book allow readers to practice the techniques they are learning and monitor their progress. A companion Web site includes interactive Excel spreadsheet examples and templates. *Mathematics and Statistics for Financial Risk Management* is an indispensable reference for today's financial risk professional. Whitaker's Cumulative Book List, 1979 **MSZ220 Basic Financial Mathematics Study Guide**, 2003

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