Module 6.D : Geometry
SECTION 1 : Interpret applied problems with volume.

Volume of a rectangular box:
- \( V = LWH \), where \( L \) is the length, \( W \) is the width and \( H \) is the height.

EXERCISE 5

The base of a rectangular box is 5 by 6 inches. Find the height if the volume is 150 cubic inches.

SOLUTION

\[
V = LWH \Rightarrow 150 = 5(6)(H) \Rightarrow \frac{150}{5(6)} = H
\]

\[
150/30 = 5 \text{ inches.}
\]

MODULE 6D - ASSESSMENT

9. The base of a rectangular box is 4 by 10 inches. Find the height if the volume is 500 inches\(^3\).

A 12.5 in B 10 in C 40 in D 4 in E I do not know

10. The base of a rectangular box is 5 by 6 inches and a height of 7 inches. Find the volume.

A 30 in\(^3\) B 210 in\(^3\) C 42 in\(^3\) D 420 in\(^3\) E I do not know