

## 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<sup>3</sup>.

- 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<sup>3</sup>      **B** 210 in<sup>3</sup>      **C** 42 in<sup>3</sup>      **D** 420 in<sup>3</sup>      **E** I do not know