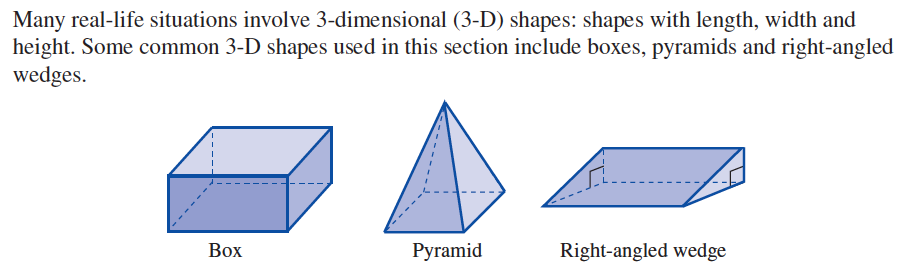
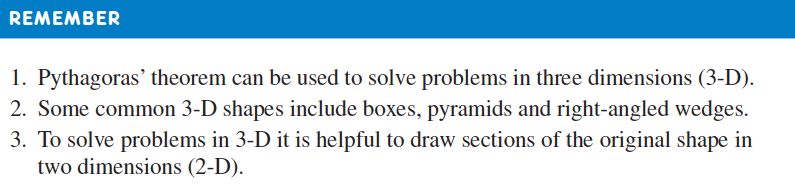
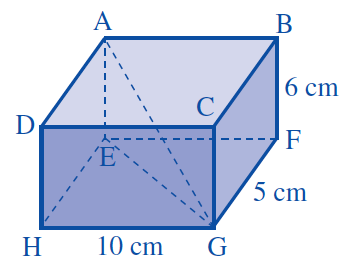
**Pythagoras’ Theorem in 3D - Extension**

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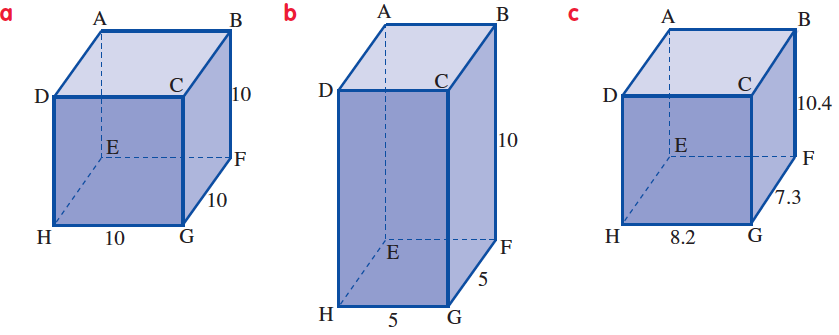
**Worked Problem**

Find the length AG

**Exercises**

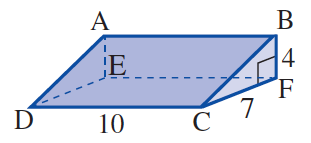
**Question 1:**

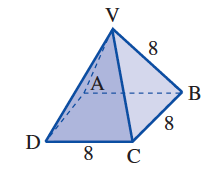
Calculate the length AG in each of the following



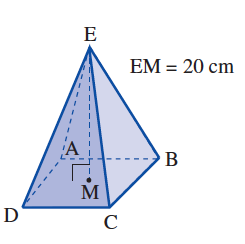
**Question 2:**

Calculate the length of CE in the wedge, and then AC.



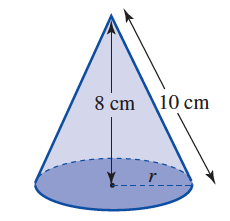
**Question 3:**

Calculate the length of BD and then the height of the pyramid.

**Question 4:**

Pyramid ABCDE has a square base. The pyramid is 20cm high. Each sloping edge measures 30cm. Calculate the length of the sides of the base.

**Question 5:**  
The sloping side of the cone is 10cm and the height is 8cm. What is the length of the radius of the base?



**Question 6:**  
