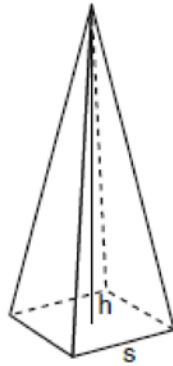


G.G.13: Volume: Apply the properties of a regular pyramid, including: volume of a pyramid equals one-third the product of the area of the base and the altitude

- 1 A regular pyramid with a square base is shown in the diagram below.



A side, s , of the base of the pyramid is 12 meters, and the height, h , is 42 meters. What is the volume of the pyramid in cubic meters?

- 2 A regular pyramid has a height of 12 centimeters and a square base. If the volume of the pyramid is 256 cubic centimeters, how many centimeters are in the length of one side of its base?
- 1) 8
 - 2) 16
 - 3) 32
 - 4) 64
- 3 The base of a pyramid is a rectangle with a width of 6 cm and a length of 8 cm. Find, in centimeters, the height of the pyramid if the volume is 288 cm^3 .

G.G.13: Volume: Apply the properties of a regular pyramid, including: volume of a pyramid equals one-third the product of the area of the base and the altitude

Answer Section

1 ANS:
2016

REF: 080930ge

2 ANS: 1

$$256 = \frac{1}{3} B \cdot 12$$

$$64 = B$$

$$8 = s$$

REF: 081428ge

3 ANS:

$$18. \quad V = \frac{1}{3} Bh = \frac{1}{3} lwh$$

$$288 = \frac{1}{3} \cdot 8 \cdot 6 \cdot h$$

$$288 = 16h$$

$$18 = h$$

REF: 061034ge