


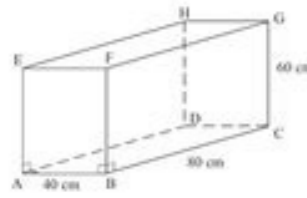
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Pythagoras in 3-D

A box for the dimensions shown in the diagram. A game is to be packed into this box. Part of the game is a rod that will just fit into the box. Find the length of this rod.



Use the space provided below to show your working.

The Education Specialist Resources on TES

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Calculate

(a) the height of the pyramid.

Let E be the centre of the base.

By Pythag: $2^2 + 2.5^2 = AE^2$
 $10.5 = AE^2$ $\sqrt{10.5} = AE$

Now use pythag to find height: $\sqrt{6^2 + h^2} = 6$
 $10.5 + h^2 = 36$
 $h^2 = 25.5$
 $h = 5.0 \text{ cm to 1dp.}$ (3)

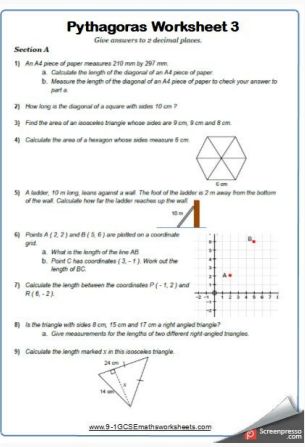
(b) the volume of the pyramid.

Volume of a pyramid = $\frac{1}{3} \times \text{base area} \times \text{height}$

$\frac{1}{3} \times (5 \times 5) \times 5.0 = 41.67 \text{ cm}^3$ (3)

(c) the angle which the slant edge AF makes with the base.

First draw diagram showing angle in question. Know opp and hyp, so use sin: $\sin x = \frac{\text{opp}}{\text{hyp}}$



generalising pythagoras surd families (i)

(1)

(2)

(3)

Discover the Pythagorean Theorem!

Name: _____ Period: _____

Behold, a triangle whose sides have lengths of 3, 4, and 5:

Let's draw squares on each side of the triangle. Side a is three squares long, side b is four squares long, and side c is five squares long.

Now let's "square" each side: Side a has a 3 by 3 group of squares (= 9) and so on.

Count up the squares associated with side a (did I mention the answer is 9?), then count the squares associated with sides b and c.

Side a: _____ squares
 Side b: _____ squares
 Side c: _____ squares

Do you notice a relationship between these numbers? Try adding side a and side b together and comparing that to side c. What do you find?

Answer: _____

PYTHAGORAS

The Pythagorean theorem, which is mine, and inspired by me, was an original idea of mine. If someone tells you that some silly Babylonian thought of it first, you tell him to shove off! —by the way, can you discover it for yourself? (But don't forget I did it first.)

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