

M4 = 31 days to go!

6 ABCD is a square of side 6 cm.

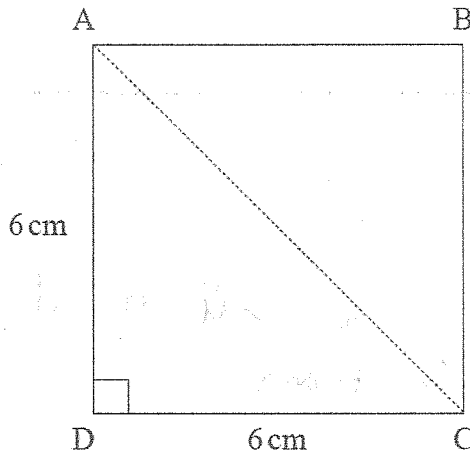


diagram not drawn accurately

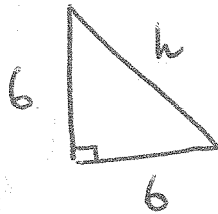
Trig or Pyth.?
No angles so

~~Trig~~ Pyth ✓

How much longer is AC than AD?

You must show all your working.

AC



$$h^2 = 6^2 + 6^2$$

$$h^2 = 36 + 36$$

$$h^2 = 72$$

$$h = \sqrt{72}$$

$$h = 8.49$$

$$8.49 - 6$$

Ans 2.49

2. There are 180 employees in a school.



The table shows the number of each type of employee in the school.

Teachers	Teaching Assistants	Admin	Other
94	16	41	29

(a) A stratified sample of size 50 is required.

Calculate the number of each type of employee that should be chosen.

Stratified Samples are all to do with population 180 equal fractions sample 50

<p>Teachers</p> $\frac{94}{180} = \frac{?}{50}$ $\frac{94 \times 50}{180} = ?$ $26.1 = ?$ <p>26</p>	<p>Assistants</p> $\frac{16}{180} = \frac{?}{50}$ $\frac{16 \times 50}{180} = ?$ $4.4 = ?$ <p>4</p>	<p>Admin</p> $\frac{41}{180} = \frac{?}{50}$ $\frac{41 \times 50}{180} = ?$ $11.4 = ?$ <p>11</p>	<p>Other</p> $\frac{29}{180} = \frac{?}{50}$ $\frac{29 \times 50}{180} = ?$ $8.1 = ?$ <p>8</p>
---	---	--	--

But must add to 50 so

so Teachers 26

Assistants 4

Admin 12

Other 8