

m2 = 28 days to go!

- 8 (a) I think of a number, multiply it by 3 and then add 1

make an equation

The answer is 28

What was the number?

$$3n + 1 = 28$$

$$\begin{array}{cc} (-1) & (-1) \end{array}$$

$$3n = 27$$

$$\begin{array}{cc} (\div 3) & (\div 3) \\ n = 9 \end{array}$$

Answer _____ [2]

number = 9

check $3 \times 9 + 1 = 28!$

- (b) I think of a number, subtract 1 from it and then divide by 4

The answer is 3

What was the number?

$$\frac{n-1}{4} = 3$$

Answer _____ [2]

or $(n-1) \div 4 = 3$

$$n-1 = 12$$

because $\frac{12}{4} = 3$

$$n-1 = 12$$

$$\begin{array}{cc} (+1) & (+1) \end{array}$$

$$n = 13$$

Remember
Opposite
Bubbles!

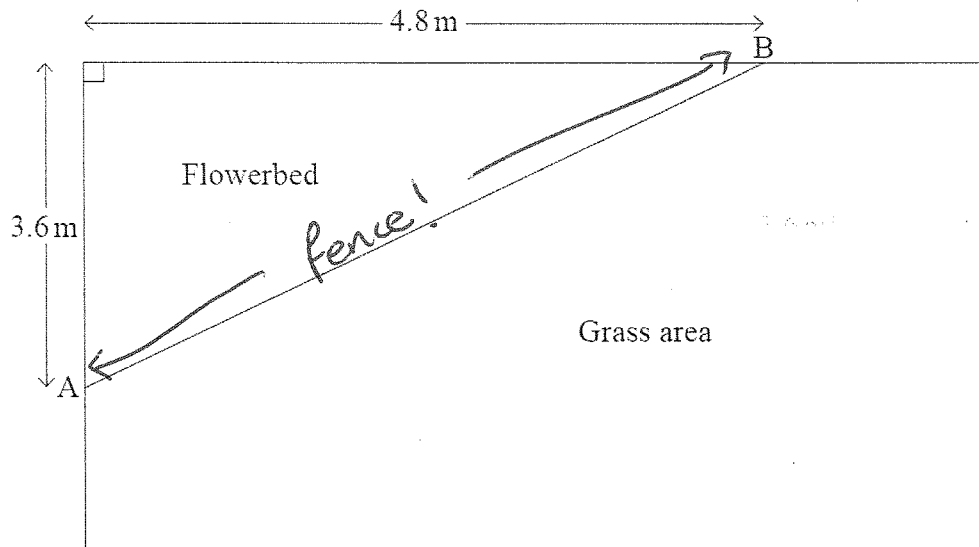
Check

$$\frac{13-1}{4} = \frac{12}{4} = 3$$

Yes!
it works!

21 A garden has a flowerbed in the corner.

A diagram of the garden is shown below.



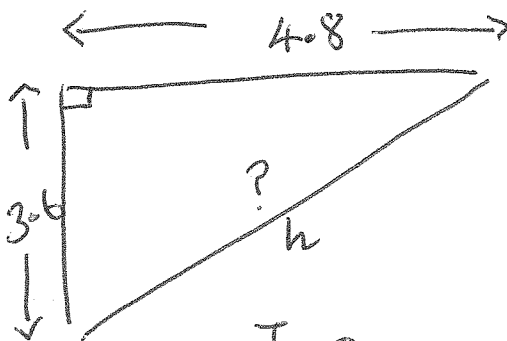
(a) Calculate the area of the flowerbed.

$$\begin{aligned} \text{Area} &= \frac{1}{2} \times \text{base} \times \text{height} \\ &= \frac{1}{2} \times 3.6 \times 4.8 \\ &= 8.64 \end{aligned}$$

units here!
 Answer 8.64 m² [2]

(b) There is a fence along the line AB separating the flowerbed from the grass area.

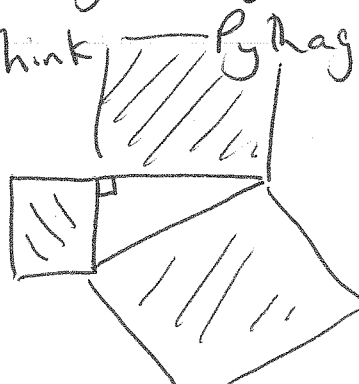
How long is the fence?



$$\begin{aligned} h^2 &= a^2 + b^2 \\ h^2 &= 3.6^2 + 4.8^2 \\ h^2 &= 12.96 + 23.04 \\ h^2 &= 36 \\ &\sqrt{36} \end{aligned}$$

Answer 6 m [3]

I see a right-angled triangle
so I think Pythagoras'



sometimes
draw squares
on the sides.