

M3 = 23 days to go!

3 Solve the equation $5y + 4 = 24$

$$5y + 4 = 24$$

$$\begin{array}{r} \textcircled{-4} \quad \textcircled{-4} \\ 5y = 20 \end{array}$$

$$5y = 20$$

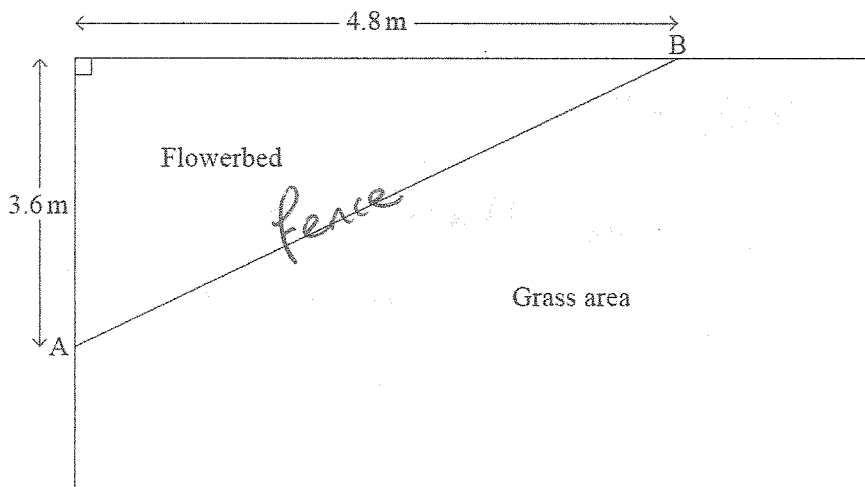
$$\begin{array}{r} \textcircled{\div 5} \quad \textcircled{\div 5} \\ y = 4 \end{array}$$

$$y = 4$$

Answer $y = 4$ [2]

13 A garden has a flowerbed in the corner.

A diagram of the garden is shown below.



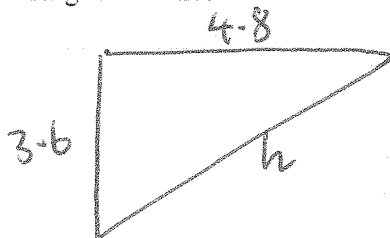
(a) Calculate the area of the flowerbed.

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

Answer 8.64 m^2 [2]

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

How long is the fence?



Pythagoras'

$$h^2 = 3.6^2 + 4.8^2$$

$$h^2 = 12.96 + 23.04$$

$$h^2 = 36$$

$$h = \sqrt{36}$$

Answer 6 m [3]

21 A school timetable is being arranged.

The day can be arranged in 30-minute classes or 50-minute classes or 60-minute classes.

No matter which of the three choices is made, the total daily teaching time will be the same.

Ignoring the time for break or lunch, what is the daily teaching time?

You must show all your working.

30, 60, 90, ... multiples of 30

50, 100, 150, 200, ... multiples of 50

60, 120, 180, 240, ... multiples of 60

if you continue these on you get 300 is in each list of multiples

Answer 300 mins [4]

or 5 hours.