



Ellie wants to decrease 860 by 23%.

She types 860×0.23 into her calculator.

Explain why Ellie is wrong.

(or she needs to then subtract her answer from 860)

she is working out
23% of 860, rather than
decreasing by 23%

Factorise $x^2 - 11x + 30$

$$(x-5)(x-6)$$

Factorise $x^2 - 2x - 63$

$$(x-9)(x+7)$$

Solve the simultaneous equations

$$5x - 2y = 24 \quad \times 3$$

$$4x + 3y = 10 \quad \times 2$$

$$15x - 6y = 72$$

$$\text{Add } 8x + 6y = 20$$

$$23x = 92$$

$$x = 4$$

check

$$20 - 2y = 24$$

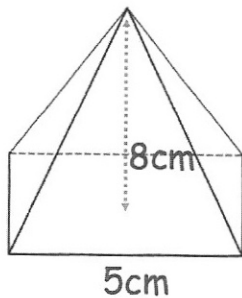
$$16 - 6 = 10 \quad \checkmark$$

$$-2y = 4$$

$$x = 4$$

$$y = -2$$

$$y = -2$$



$$V = \frac{1}{3}Ah$$

A square based pyramid has a base of side length 5cm.

The height of the pyramid is 8cm.

Find the volume of the pyramid.

$$V = \frac{1}{3} \times 25 \times 8$$

$$= 66.6 \text{ cm}^3$$

Write down the exact value of $\sin 30^\circ$

$$\frac{1}{2}$$

Write down the exact value of $\cos 30^\circ$

$$\frac{\sqrt{3}}{2}$$