

Shown are two similar jugs.

The smaller jug holds 500ml.
How much does the larger jug hold?

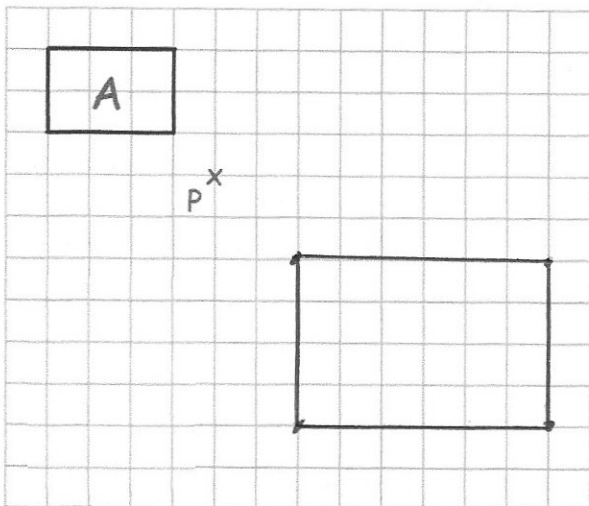
$$500 \times 2^3 = 4000 \text{ ml}$$

4 litres

Simplify $\frac{x^2 - 9}{5x^2 + 14x - 3}$

$$\frac{(x-3)(x+3)}{(5x-1)(x+3)}$$

$$\frac{x-3}{5x-1}$$



Enlarge shape A by scale factor -2, using the point P as centre of enlargement.

Abner is 1.9m tall and David is 178cm tall. Both are measured to the nearest centimetre. 190cm

What is the minimum difference between their heights?

$$189.5 - 178.5 = 11 \text{ cm}$$

Matthew is playing darts.
The probability he hits a bullseye with a dart is 0.3 $P(\text{miss}) = 0.7$

Matthew throws three darts.

Find the probability Matthew hits the bullseye with exactly two darts.

$$0.3 \times 0.3 \times 0.7 = 0.063$$

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0.189