



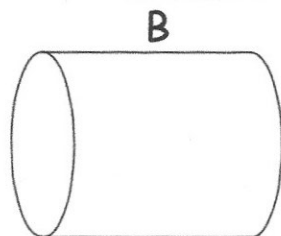
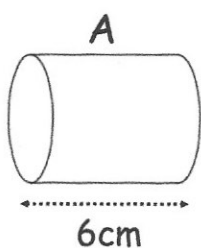
$$(x + 4)^2 \equiv x^2 + 8x + 16$$

$$(x + 4)^2$$

$$(x + 4)^2 < 10$$

$$(x + 4)^2 = x - 3$$

Circle the expression



The surface area of A is 500cm^2
 The surface area of B is 2000cm^2 $\times 4$

The length A is 6cm. $\sqrt{4} = 2$

Find the length of B.

$$6 \times 2 = 12\text{cm}$$

A ball is dropped from h metres.
 After each bounce the ball reaches 60% of its previous height.
 After its third bounce it reaches a height of 0.648m.

Find h

$$h \times 0.6 \times 0.6 \times 0.6 = 0.648$$

$$h \times 0.6^3 = 0.648$$

$$h = \frac{0.648}{0.6^3}$$

$$= 3\text{m}$$

Show

$(n + 4)^2 - (n + 2)^2$ is always a multiple of 4 for all positive integer values of n .

$$n^2 + 8n + 16 - (n^2 + 4n + 4)$$

$$= 4n + 12$$

$$4(n + 3)$$

Factorise $11x^2 - 23x - 30$

$$(11x + 10)(x - 3)$$