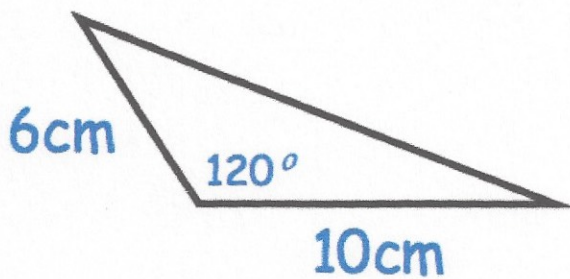


17th June

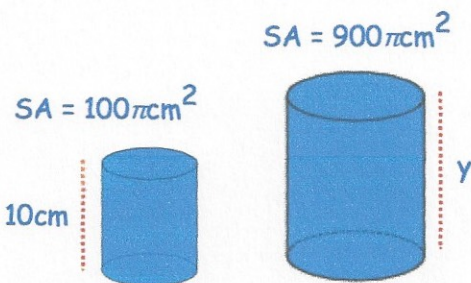


Corbettmaths



Calculate the area of the triangle.

$$\frac{1}{2} \times 6 \times 10 \times \sin 120 = 25.98 \text{ cm}^2$$

Find y .

$$900\pi \div 100\pi = 9$$

$$\sqrt{9} = 3$$

$$10 \times 3 = 30 \text{ cm}$$

Colour	Pink	Blue	Red
Number of sweets	$2x + 12$	6	x

Find the probability of selecting a pink.

$$6 \times 10 = 60$$

$$3x + 12 = 54$$

$$3x = 42$$

$$x = 14$$

Pink

$$2 \times 14 + 12 = 40$$

$$\frac{40}{60} = \frac{2}{3}$$

The probability of choosing a blue at random is $\frac{1}{10}$

A rectangular field is 30m longer than wide.

The area of the field is 8800m²

Work out the perimeter of the field.

$$80 + 80 + 110 + 110 = 380 \text{ m}$$

$$x(x + 30) = 8800$$

$$x^2 + 30x - 8800 = 0$$

$$(x + 110)(x - 80) = 0$$

$$x = -110, (80)$$

Can't be negative

Expand $\sqrt{12}(7 - \sqrt{3})$

$$7\sqrt{12} - \sqrt{36}$$

$$7\sqrt{12} - 6$$