

$$180 - 88$$

$$x = 92^\circ$$

$$180 - 51 = 129$$

$$y = 129^\circ$$

Find x and y

Simplify $\sqrt{45}$

$$\sqrt{9} \times \sqrt{5}$$

$$3\sqrt{5}$$

Simplify $3\sqrt{3} \times 3\sqrt{12}$

$$9 \times \sqrt{36}$$

$$9 \times 6 = 54$$

Daisy spins a biased spinner twice. The table shows the probability of each colour.

Colour	Red	White	Black	Brown
Probability	0.1	0.4	0.3	0.2

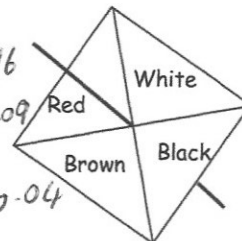
Find the probability of the spinner landing on the same colour twice.

$$P(RR) = 0.1 \times 0.1 = 0.01$$

$$P(WW) = 0.4 \times 0.4 = 0.16$$

$$P(BB) = 0.3 \times 0.3 = 0.09$$

$$P(BrBr) = 0.2 \times 0.2 = 0.04$$



$$0.01 + 0.16 + 0.09 + 0.04 = 0.3$$

A circular mirror has a diameter of 60cm to the nearest centimetre.

Find the greatest possible area of the mirror.

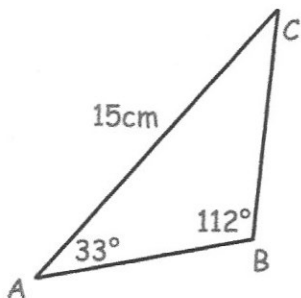
Give your answer in cm^2

$$d = 60.5$$

$$r = 30.25$$

$$\pi \times 30.25^2$$

$$= 2874.75 \text{ cm}^2$$



Work out the length of BC

$$\frac{15}{\sin 112} = \frac{BC}{\sin 33}$$

$$BC = \frac{15 \sin 33}{\sin 112} = 8.81 \text{ cm}$$

to 2dp