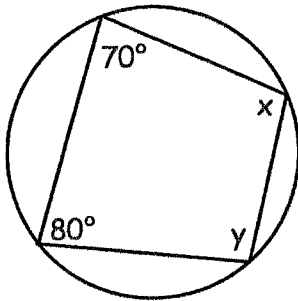


3rd January



Corbettmaths

Find x and y

$$x = 100$$

$$y = 110$$

Simplify $\sqrt{8}$

$$\begin{aligned} &= \sqrt{4} \sqrt{2} \\ &= 2\sqrt{2} \end{aligned}$$

A biased coin is flipped three times.



The probability of the coin landing on tails is 0.7

Find the probability the coin lands on tails exactly once.

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

$$0.063 \times 3 = 0.189$$

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

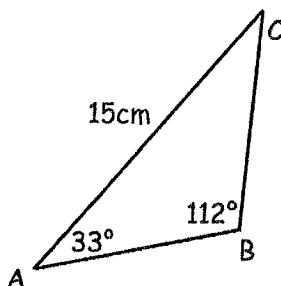
Find the greatest possible area of the mirror.

Give your answer in cm^2

$$\text{max diameter} = 60.5$$

$$\text{radius} = 30.25$$

$$\pi r^2 = 2874.75 \text{ cm}^2 (2 \text{ dp})$$



Work out the length of BC

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

$$? = 8.81 \text{ cm} (2 \text{ dp})$$