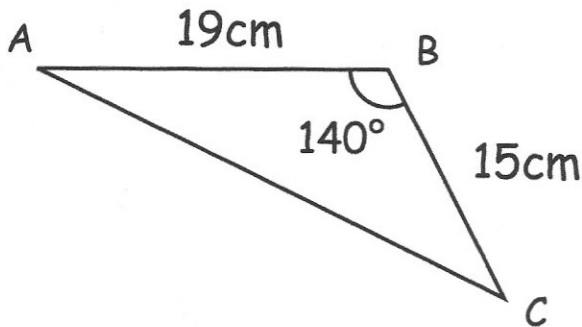


Find the area of the sector.

$$\frac{29}{360} \times \pi \times 4^2$$

$$= 4.049 \text{ cm}^2$$



Work out the area of the triangle.

$$\frac{1}{2} \times 19 \times 15 \times \sin 140$$

$$91.597 \text{ cm}^2$$

A car travels at 50mph to the nearest 10mph. $UB = 55$ $LB = 45$

It travels 220 miles to the nearest 10miles. $UB = 225$ $LB = 215$

What is the shortest possible time taken for this journey?

$$S = \frac{d}{t} \quad \text{Min } t = \frac{215}{55}$$

$$t = \frac{d}{S} \leftarrow LB \quad E = 3.909 \text{ hours}$$

$$S \leftarrow UB \quad \text{or}$$

3 hours 54 mins 33 seconds

Helen is taking part in a quiz on TV. The probability she answers a question correctly is $\frac{4}{5}$

Helen is asked three questions

Calculate the probability she answers all three questions correctly.

$$\frac{4}{5} \times \frac{4}{5} \times \frac{4}{5} = \frac{64}{125}$$

An oil tank loses 32% of its contents every hour. Theo says the tank will have lost 95% of its original contents by the end of the sixth hour.

Is Theo correct?

$$100 \times 0.68^6 = 9.88 \dots$$

No, 90.1%