

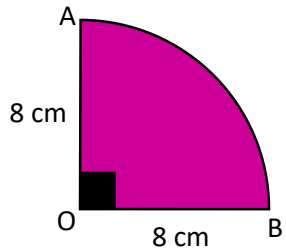


Timester Challenge

Arc Length

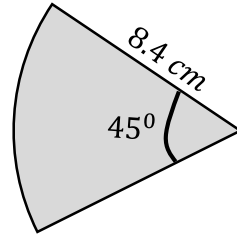


Calculate the length of the arc AB.
Give your answer in terms of pi.



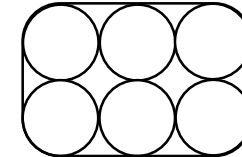
Bronze ★

Calculate the perimeter of the sector.
Give your answer in terms of π in its simplest form

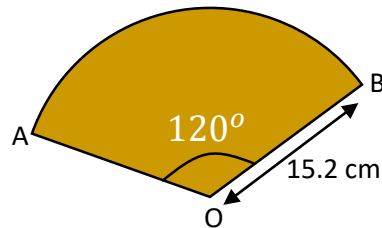


Silver ★

Six pipes are held together with a band on the back of a lorry. The figure below shows the bottom of the pipes and the band.
Each of the pipes has a diameter of 24 cm.
Find the length of the band in this position.
Give your answer correct to one decimal place.

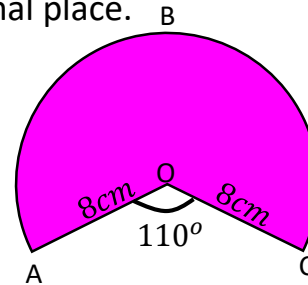


Work out the length of the arc AB.
Give your answer to 3 significant figures.



Bronze ★

Calculate the perimeter of the sector.
Give your answer to 1 decimal place.



Silver ★

Gold ★



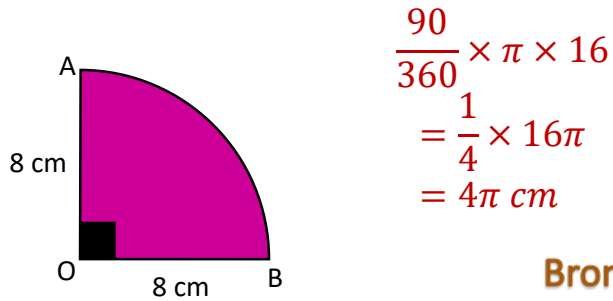
Timester Challenge

Arc Length



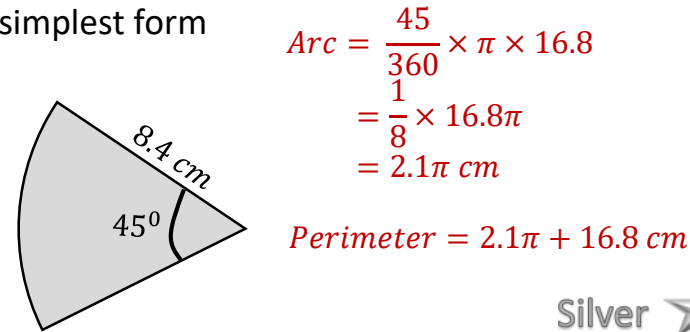
Answers

Calculate the length of the arc AB.
Give your answer in terms of pi.



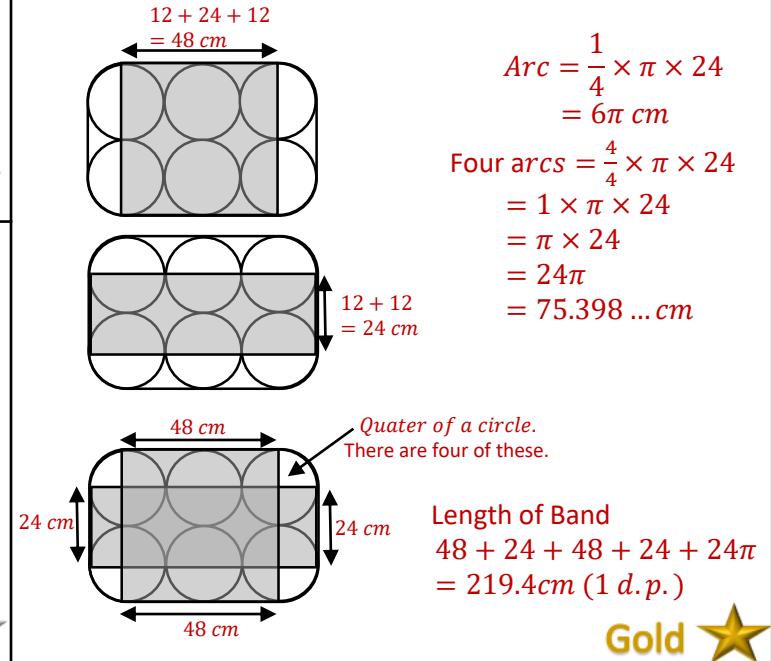
Bronze ★

Calculate the perimeter of the sector.
Give your answer in terms of π in its simplest form



Silver ★

Six pipes are held together with a band on the back of a lorry. The figure below shows the bottom of the pipes and the band. Each of the pipes has a diameter of 24 cm. Find the length of the band in this position.



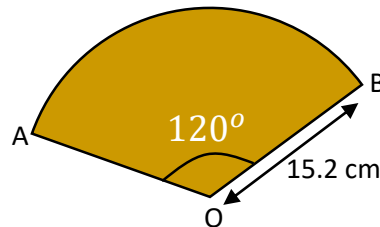
Gold ★

Work out the length of the arc AB.
Give your answer to 3 significant figures.

$$\frac{120}{360} \times \pi \times 30.4$$

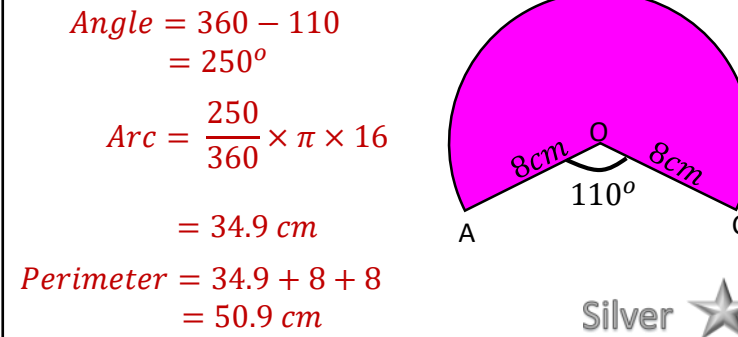
$$= \frac{1}{3} \times 30.4\pi$$

$$= 31.8 \text{ cm}$$



Bronze ★

Calculate the perimeter of the sector.
Give your answer to 1 decimal place.



Silver ★