

Maths

Find the area of a sector

Miss Parnham



Find the area of a sector

1. Match each area formula to a shape.

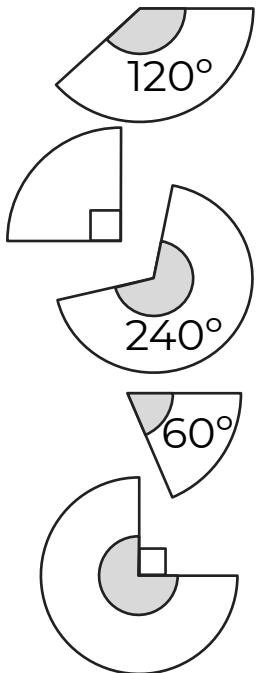
$$\frac{\pi r^2}{4}$$

$$\frac{\pi r^2}{6}$$

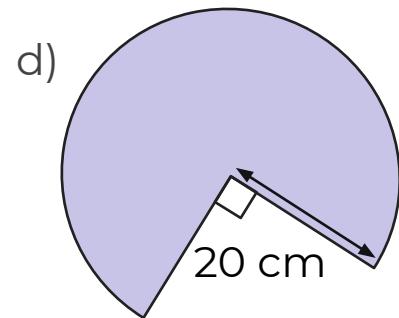
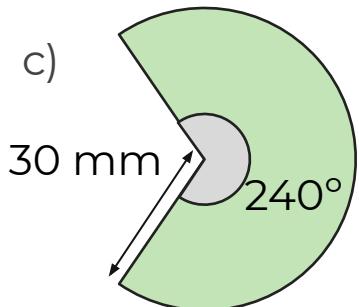
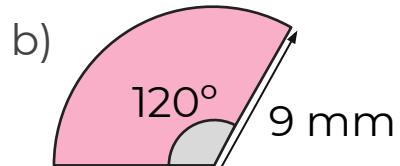
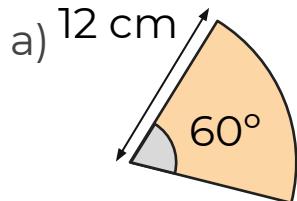
$$\frac{3\pi r^2}{4}$$

$$\frac{\pi r^2}{3}$$

$$\frac{2\pi r^2}{3}$$



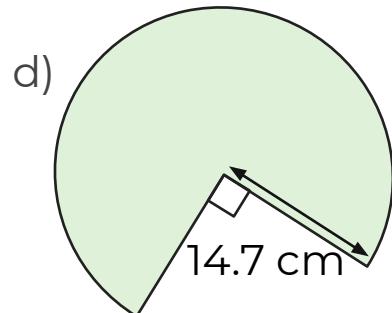
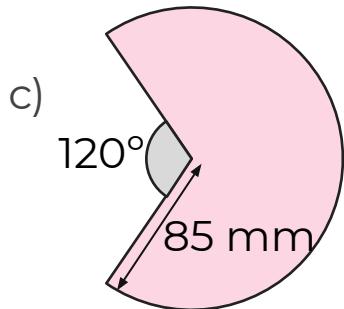
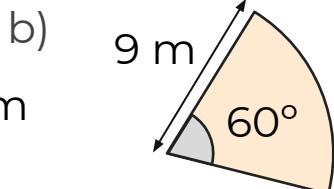
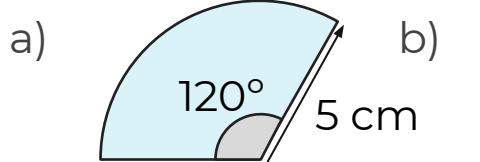
2. Find the area of these sectors.
Give your answers in terms of π .



Find the area of a sector

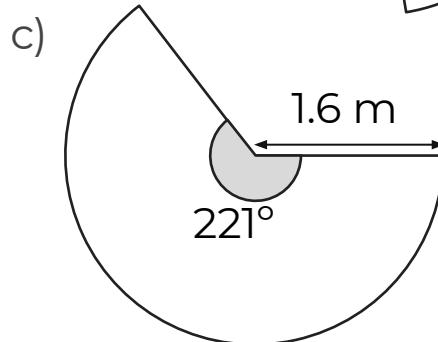
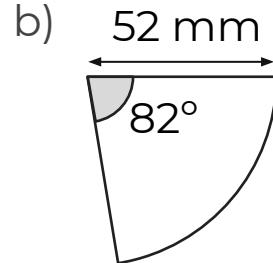
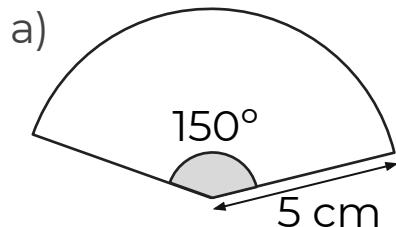
3. Find the area of the sectors.

Give answers to 3 significant figures.



4. Find the area of the sectors.

Give answers to 3 significant figures.

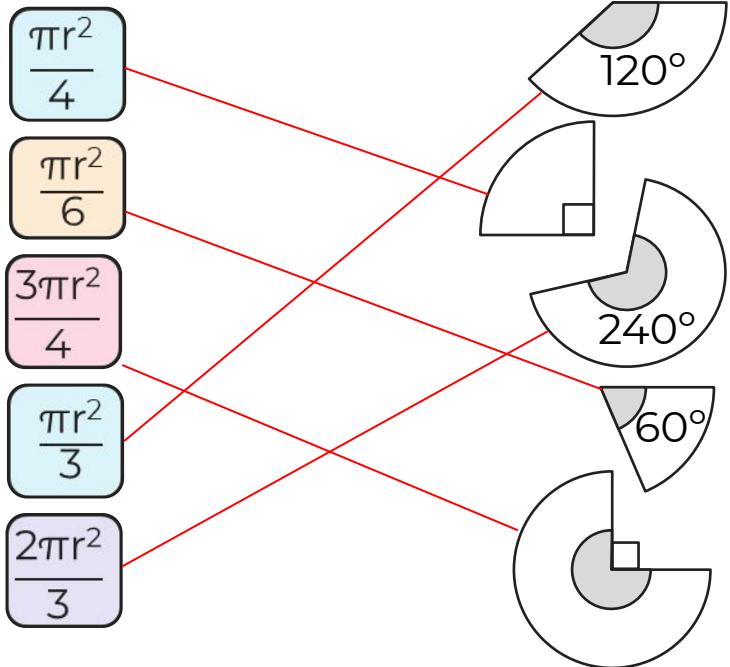


Answers



Find the area of a sector

1. Match each area formula to a shape.



2. Find the area of these sectors.

Give your answers in terms of π .

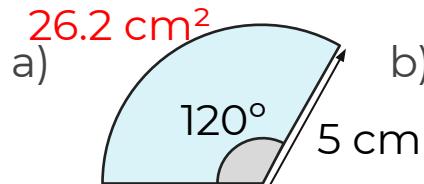
- a) 12 cm $24\pi \text{ cm}^2$ b) 9 mm $27\pi \text{ mm}^2$
- c) 30 mm $600\pi \text{ mm}^2$ d) 20 cm $300\pi \text{ cm}^2$



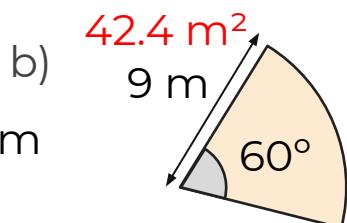
Find the area of a sector

3. Find the area of the sectors.

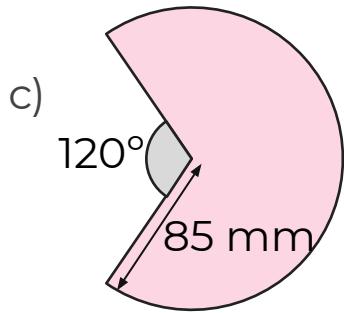
Give answers to 3 significant figures.



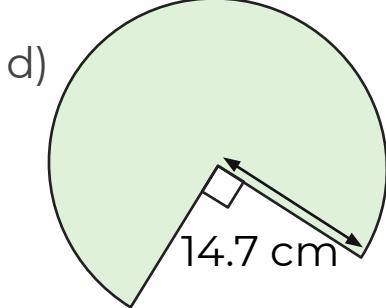
$$15100 \text{ mm}^2$$



$$509 \text{ cm}^2$$



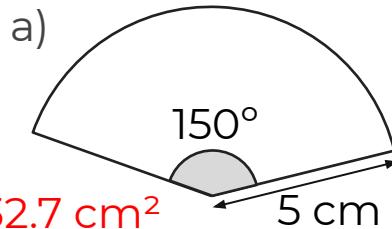
$$85 \text{ mm}$$



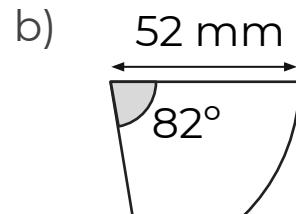
$$14.7 \text{ cm}$$

4. Find the area of the sectors.

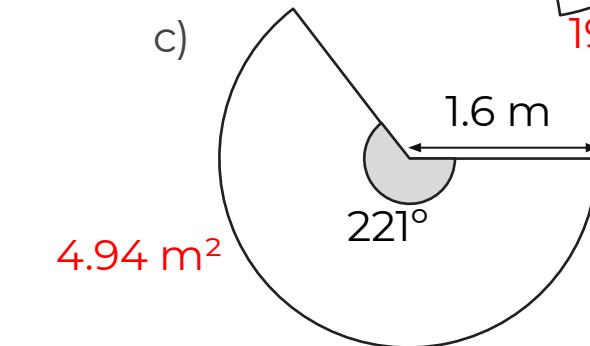
Give answers to 3 significant figures.



$$32.7 \text{ cm}^2$$



$$1930 \text{ mm}^2$$



$$4.94 \text{ m}^2$$

