

MATHEMATICS:

AREA

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Learning Objective: To apply knowledge to find the area of semi-circles, quadrants and sectors

Finding the area of sectors given the angle A sector is formed by dividing a circle with two radii.



The area of a sector is determined by calculating the fraction of the area using the given angle.

$$A(sector) = \frac{\theta}{360} \times \pi r^2$$

Example: Find the area of the sector to 2 decimal places.

Solution:

$$A (sector) = \frac{\theta}{360} \times \pi r^2$$

$$A(sector) = \frac{120}{360} \times \pi \times r^2$$

$$A (sector) = 4.19 \ cm^2 \ (to 2 \ dp)$$

Find the area of the semi-circles and quadrants. Round to 2 decimal places.



Find the area of the sectors. Round to 2 decimal places.





MATHEMATICS: ANSWER SHEET

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120

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