

# IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Centre Number:   
Candidate Number:

**MATHEMATICS** 0580/22  
Paper 2 (Extended) **50 MARKS**  
50 minutes  
1 hour 15 minutes

**Solved**

- INSTRUCTIONS**
- Answer all questions.
  - Use a ruler to mark lines only. You may use an eraser to mark straight lines.
  - Write your name, centre number and candidate number in the boxes at the top of the page.
  - Write your answers in black ink in the spaces provided.
  - Do not use an erasable pen or correction fluid.
  - Do not write on any bar codes.
  - You should use a calculator where appropriate.

1. The diagram shows a circle with centre  $O$  and radius  $5$  cm. The angle  $\theta$  is  $120^\circ$ .

Find the area of the sector.

**Solution:**

$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2$$
$$10\pi = \frac{\theta}{360} \times \pi \times 5^2$$
$$10 = \frac{\theta}{360} \times 25$$
$$10 \times 360 = 25\theta$$
$$3600 = 25\theta$$
$$\theta = \frac{3600}{25}$$
$$\theta = 144$$

∴ The area of the sector is  $10\pi$  cm<sup>2</sup>.

2. The diagram shows a circle with centre  $O$  and radius  $5$  cm. The angle  $\theta$  is  $120^\circ$ .

Find the area of the sector.

**Solution:**

$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2$$
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3. The diagram shows a circle with centre  $O$  and radius  $5$  cm. The angle  $\theta$  is  $120^\circ$ .

Find the area of the sector.

**Solution:**

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$$10\pi = \frac{\theta}{360} \times \pi \times 5^2$$
$$10 = \frac{\theta}{360} \times 25$$
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$$\theta = \frac{3600}{25}$$
$$\theta = 144$$

∴ The area of the sector is  $10\pi$  cm<sup>2</sup>.

4. The diagram shows a circle with centre  $O$  and radius  $5$  cm. The angle  $\theta$  is  $120^\circ$ .

Find the area of the sector.

**Solution:**

$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2$$
$$10\pi = \frac{\theta}{360} \times \pi \times 5^2$$
$$10 = \frac{\theta}{360} \times 25$$
$$10 \times 360 = 25\theta$$
$$3600 = 25\theta$$
$$\theta = \frac{3600}{25}$$
$$\theta = 144$$

∴ The area of the sector is  $10\pi$  cm<sup>2</sup>.

5. The diagram shows a circle with centre  $O$  and radius  $5$  cm. The angle  $\theta$  is  $120^\circ$ .

Find the area of the sector.

**Solution:**

$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2$$
$$10\pi = \frac{\theta}{360} \times \pi \times 5^2$$
$$10 = \frac{\theta}{360} \times 25$$
$$10 \times 360 = 25\theta$$
$$3600 = 25\theta$$
$$\theta = \frac{3600}{25}$$
$$\theta = 144$$

∴ The area of the sector is  $10\pi$  cm<sup>2</sup>.

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