

Sector Area Worksheet

10 practice questions

Use exact answers in terms of pi.

Sector Area

1. Find the area of the sector. radius = 6 cm, angle = 60 degrees.
Answer: _____
2. Find the area of the sector. radius = 8 cm, angle = 90 degrees.
Answer: _____
3. Find the area of the sector. radius = 5 cm, angle = 72 degrees.
Answer: _____
4. Find the area of the sector. radius = 12 cm, angle = 30 degrees.
Answer: _____
5. Find the area of the sector. radius = 10 cm, angle = 144 degrees.
Answer: _____
6. Find the area of the sector. radius = 9 cm, angle = 120 degrees.
Answer: _____
7. Find the area of the sector. radius = 7 cm, angle = 180 degrees.
Answer: _____
8. Find the area of the sector. radius = 4 cm, angle = 45 degrees.
Answer: _____
9. Find the area of the sector. radius = 15 cm, angle = 80 degrees.
Answer: _____
10. Find the area of the sector. radius = 3 cm, angle = 240 degrees.
Answer: _____

Sector Perimeter Worksheet

10 practice questions

Use exact answers in terms of π . Remember: perimeter includes two radii and the arc.

Sector Perimeter

11. Find the perimeter of the sector. radius = 6 cm, angle = 60 degrees.

Answer: _____

12. Find the perimeter of the sector. radius = 8 cm, angle = 90 degrees.

Answer: _____

13. Find the perimeter of the sector. radius = 5 cm, angle = 72 degrees.

Answer: _____

14. Find the perimeter of the sector. radius = 12 cm, angle = 30 degrees.

Answer: _____

15. Find the perimeter of the sector. radius = 10 cm, angle = 144 degrees.

Answer: _____

16. Find the perimeter of the sector. radius = 9 cm, angle = 120 degrees.

Answer: _____

17. Find the perimeter of the sector. radius = 7 cm, angle = 180 degrees.

Answer: _____

18. Find the perimeter of the sector. radius = 4 cm, angle = 45 degrees.

Answer: _____

19. Find the perimeter of the sector. radius = 15 cm, angle = 80 degrees.

Answer: _____

20. Find the perimeter of the sector. radius = 3 cm, angle = 240 degrees.

Answer: _____

Sector Area and Perimeter Answers

Check after completing the worksheet

Formula reminders: area = $(\theta / 360) \times \pi r^2$. Perimeter = $2r + \text{arc length}$.

Answers

1. Area: $6\pi \text{ cm}^2$
2. Area: $16\pi \text{ cm}^2$
3. Area: $5\pi \text{ cm}^2$
4. Area: $12\pi \text{ cm}^2$
5. Area: $40\pi \text{ cm}^2$
6. Area: $27\pi \text{ cm}^2$
7. Area: $49\pi/2 \text{ cm}^2$
8. Area: $2\pi \text{ cm}^2$
9. Area: $50\pi \text{ cm}^2$
10. Area: $6\pi \text{ cm}^2$
11. Perimeter: $12 + 2\pi \text{ cm}$
12. Perimeter: $16 + 4\pi \text{ cm}$
13. Perimeter: $10 + 2\pi \text{ cm}$
14. Perimeter: $24 + 2\pi \text{ cm}$
15. Perimeter: $20 + 8\pi \text{ cm}$
16. Perimeter: $18 + 6\pi \text{ cm}$
17. Perimeter: $14 + 7\pi \text{ cm}$
18. Perimeter: $8 + \pi \text{ cm}$
19. Perimeter: $30 + 20\pi/3 \text{ cm}$
20. Perimeter: $6 + 4\pi \text{ cm}$