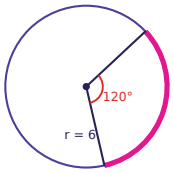
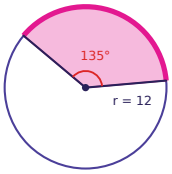
Task card 1 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



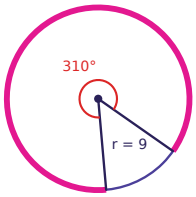
Task card 2 Arc Length & Area of a Sector

Find the area of the shaded sector. Leave your answer in terms of π.



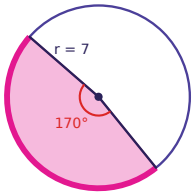
Task card 3 Arc Length & Area of a Sector

Find the length of the highlighted arc. Use π ≈ 3.14 and round to the nearest tenth.



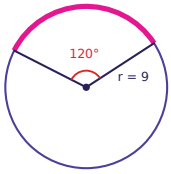
Task card 4 Arc Length & Area of a Sector

Find the area of the shaded sector. Use π ≈ 3.14 and round to the nearest tenth.



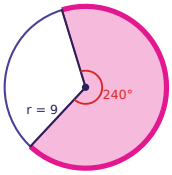
Task card 5 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



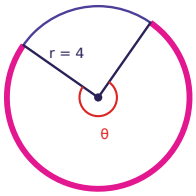
Task card 6 Arc Length & Area of a Sector

Find the area of the shaded sector. Leave your answer in terms of π.



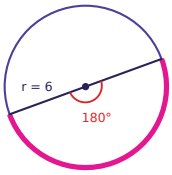
Task card 7 Arc Length & Area of a Sector

The highlighted arc has length 6π and the radius is 4. Find the central angle θ.



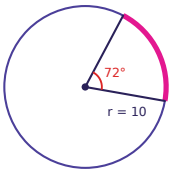
Task card 8 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



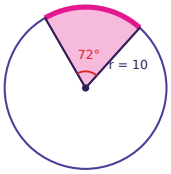
Task card 9 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



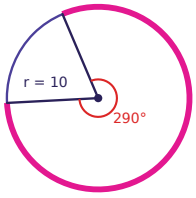
Task card 10 Arc Length & Area of a Sector

Find the area of the shaded sector. Leave your answer in terms of π.



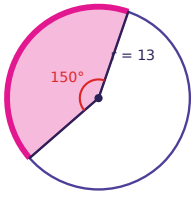
Task card 11 Arc Length & Area of a Sector

Find the length of the highlighted arc. Use π ≈ 3.14 and round to the nearest tenth.



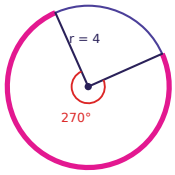
Task card 12 Arc Length & Area of a Sector

Find the area of the shaded sector. Use π ≈ 3.14 and round to the nearest tenth.



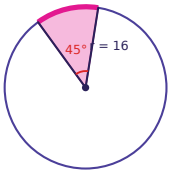
Task card 13 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



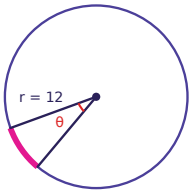
Task card 14 Arc Length & Area of a Sector

Find the area of the shaded sector. Leave your answer in terms of π.



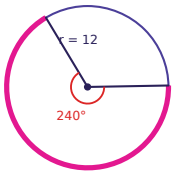
Task card 15 Arc Length & Area of a Sector

The highlighted arc has length 2π and the radius is 12. Find the central angle θ.



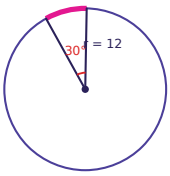
Task card 16 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



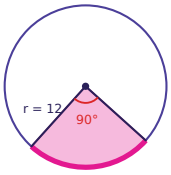
Task card 17 Arc Length & Area of a Sector

Find the length of the highlighted arc. Leave your answer in terms of π.



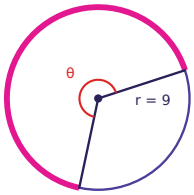
Task card 18 Arc Length & Area of a Sector

Find the area of the shaded sector. Leave your answer in terms of π.



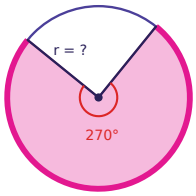
Task card 19 Arc Length & Area of a Sector

The highlighted arc has length 12π and the radius is 9. Find the central angle θ.



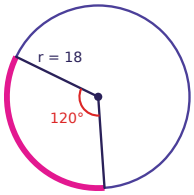
Task card 20 Arc Length & Area of a Sector

The shaded sector has area 192π and a central angle of 270°. Find the radius.



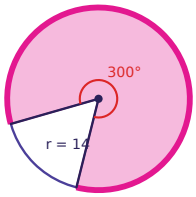
Task card 21 Arc Length & Area of a Sector

Find the length of the highlighted arc. Use π ≈ 3.14 and round to the nearest tenth.



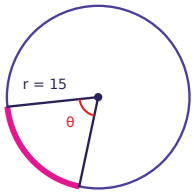
Task card 22 Arc Length & Area of a Sector

Find the area of the shaded sector. Use π ≈ 3.14 and round to the nearest tenth.



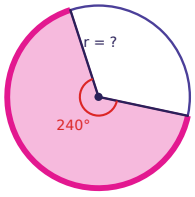
Task card 23 Arc Length & Area of a Sector

The highlighted arc has length 6π and the radius is 15. Find the central angle θ.



Task card 24 Arc Length & Area of a Sector

The shaded sector has area 96π and a central angle of 240°. Find the radius.



Arc Length & Area of a Sector Task Cards

Recording sheet · Grade 10 · Give answers in terms of π (like 6π) unless the problem says to use π ≈ 3.14; then round to the nearest tenth.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Arc Length & Area of a Sector Task Cards: Answer Key

Grade 10 · Medium

The answers online

1. 4π	**2.** 54π	**3.** 48.7
4. 72.7	**5.** 6π	**6.** 54π
7. 270°	**8.** 6π	**9.** 4π
10. 20π	**11.** 50.6	**12.** 221.1
13. 6π	**14.** 32π	**15.** 30°
16. 16π	**17.** 2π	**18.** 36π
19. 240°	**20.** 16	**21.** 37.7
22. 512.9	**23.** 72°	**24.** 12