Task card 1 Radians, Arc Length & Sector Area

Convert 270° to radians: 270° = ___π

Task card 2 Radians, Arc Length & Sector Area

Convert 2π/3 radians to degrees.

Task card 3 Radians, Arc Length & Sector Area

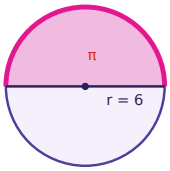
Convert 60° to radians: 60° = ___π

Task card 4 Radians, Arc Length & Sector Area

Convert π/3 radians to degrees.

Task card 5 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



Task card 6 Radians, Arc Length & Sector Area

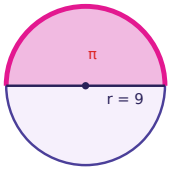
Convert 135° to radians: 135° = ___π

Task card 7 Radians, Arc Length & Sector Area

Convert π/2 radians to degrees.

Task card 8 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



Task card 9 Radians, Arc Length & Sector Area

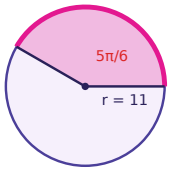
Convert 180° to radians: 180° = ___π

Task card 10 Radians, Arc Length & Sector Area

Convert π/4 radians to degrees.

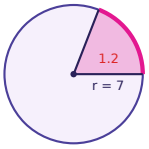
Task card 11 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



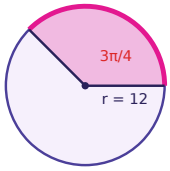
Task card 12 Radians, Arc Length & Sector Area

A circle has radius 7 cm. Find the length of the arc cut off by a central angle of 1.2 radians.



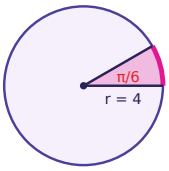
Task card 13 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



Task card 14 Radians, Arc Length & Sector Area

Find the area of the shaded sector as a multiple of π: A = ___π

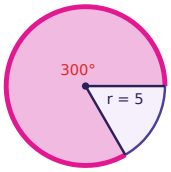


Task card 15 Radians, Arc Length & Sector Area

Convert 20° to radians: 20° = ___π

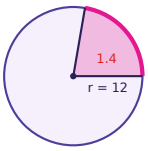
Task card 16 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



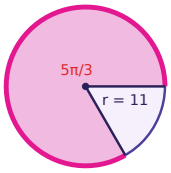
Task card 17 Radians, Arc Length & Sector Area

A circle has radius 12 cm. Find the length of the arc cut off by a central angle of 1.4 radians.



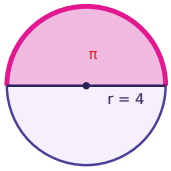
Task card 18 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



Task card 19 Radians, Arc Length & Sector Area

Find the area of the shaded sector as a multiple of π: A = ___π



Task card 20 Radians, Arc Length & Sector Area

Convert 5π/6 radians to degrees.

Task card 21 Radians, Arc Length & Sector Area

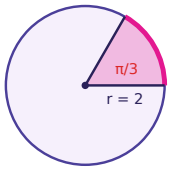
Convert 90° to radians: 90° = ___π

Task card 22 Radians, Arc Length & Sector Area

Convert 3π/2 radians to degrees.

Task card 23 Radians, Arc Length & Sector Area

Find the length of the highlighted arc as a multiple of π: s = ___π



Task card 24 Radians, Arc Length & Sector Area

Convert 45° to radians: 45° = ___π

Radians, Arc Length & Sector Area Task Cards

Recording sheet · Grade 11 · Answer each question. When asked for a multiple of π, type only the number in front of π (for example 5/6).

Scan to check your answers

Name: _____ Date: _____

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

Radians, Arc Length & Sector Area Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. $\frac{3}{2}$	**2.** 120	**3.** $\frac{1}{3}$
4. 60	**5.** 6	**6.** $\frac{3}{4}$
7. 90	**8.** 9	**9.** 1
10. 45	**11.** $\frac{55}{6}$	**12.** 8.4
13. 9	**14.** $\frac{4}{3}$	**15.** $\frac{1}{9}$
16. $\frac{25}{3}$	**17.** 16.8	**18.** $\frac{55}{3}$
19. 8	**20.** 150	**21.** $\frac{1}{2}$
22. 270	**23.** $\frac{2}{3}$	**24.** $\frac{1}{4}$