Task card 1 Radians, Arc Length & Sector Area

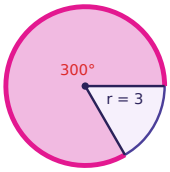
Convert 135° to radians: 135° = ___π

Task card 2 Radians, Arc Length & Sector Area

Convert 11π/6 radians to degrees.

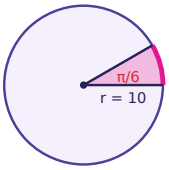
Task card 3 Radians, Arc Length & Sector Area

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



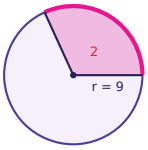
Task card 4 Radians, Arc Length & Sector Area

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



Task card 5 Radians, Arc Length & Sector Area

A circle has radius 9 cm. Find the length of the arc cut off by a central angle of 2 radians.

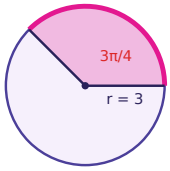


Task card 6 Radians, Arc Length & Sector Area

An arc of length $\left(\frac{3}{2}\right)\pi$ has a central angle of 3π/4 radians. Find the radius of the circle.

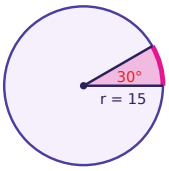
Task card 7 Radians, Arc Length & Sector Area

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



Task card 8 Radians, Arc Length & Sector Area

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



Task card 9 Radians, Arc Length & Sector Area

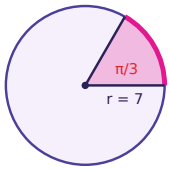
Convert 36° to radians: 36° = ___π

Task card 10 Radians, Arc Length & Sector Area

Convert 2π/3 radians to degrees.

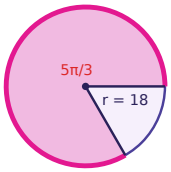
Task card 11 Radians, Arc Length & Sector Area

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



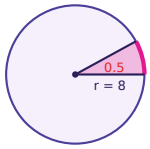
Task card 12 Radians, Arc Length & Sector Area

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



Task card 13 Radians, Arc Length & Sector Area

A circle has radius 8 cm. Find the length of the arc cut off by a central angle of 0.5 radians.

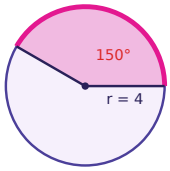


Task card 14 Radians, Arc Length & Sector Area

An arc of length $\left(\frac{7}{2}\right)\pi$ has a central angle of π/4 radians. Find the radius of the circle.

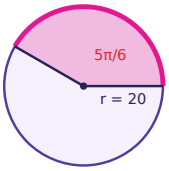
Task card 15 Radians, Arc Length & Sector Area

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



Task card 16 Radians, Arc Length & Sector Area

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



Task card 17 Radians, Arc Length & Sector Area

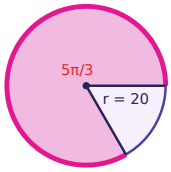
Convert 20° to radians: 20° = ___π

Task card 18 Radians, Arc Length & Sector Area

Convert 3π/2 radians to degrees.

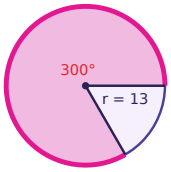
Task card 19 Radians, Arc Length & Sector Area

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



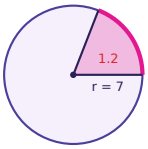
Task card 20 Radians, Arc Length & Sector Area

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



Task card 21 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.

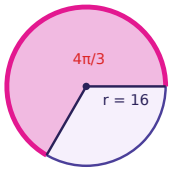


Task card 22 Radians, Arc Length & Sector Area

An arc of length $\frac{10}{3}\pi$ has a central angle of 5π/3 radians. Find the radius of the circle.

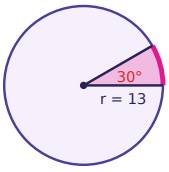
Task card 23 Radians, Arc Length & Sector Area

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



Task card 24 Radians, Arc Length & Sector Area

Find the area of the shaded sector as a multiple of π: A = ___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 · Medium

The answers online

1. $\frac{3}{4}$	**2.** 330	**3.** 5
4. $\frac{25}{3}$	**5.** 18	**6.** 2
7. $\frac{9}{4}$	**8.** $\frac{75}{4}$	**9.** $\frac{1}{5}$
10. 120	**11.** $\frac{7}{3}$	**12.** 270
13. 4	**14.** 14	**15.** $\frac{10}{3}$
16. $\frac{500}{3}$	**17.** $\frac{1}{9}$	**18.** 270
19. $\frac{100}{3}$	**20.** $\frac{845}{6}$	**21.** 8.4
22. 2	**23.** $\frac{64}{3}$	**24.** $\frac{169}{12}$