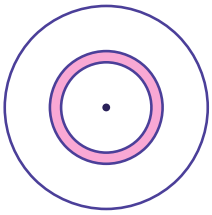
Task card 1 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 4, 5 and 9. Find the probability that it lands in the shaded ring.



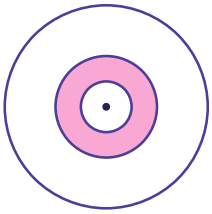
Task card 2 Geometric Probability

A point is chosen at random on AD. Find the probability that it lies on BD.



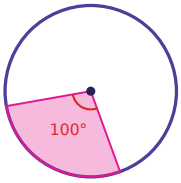
Task card 3 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 2 and 4. Find the probability that it lands in the shaded ring.



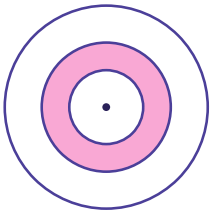
Task card 4 Geometric Probability

The shaded sector of the spinner has a central angle of 100°. Find the probability that the spinner lands in the shaded sector.



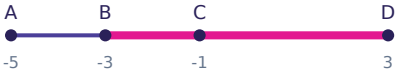
Task card 5 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 4, 7 and 11. Find the probability that it lands in the shaded ring.



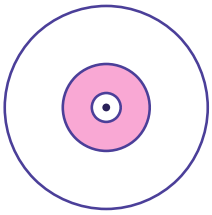
Task card 6 Geometric Probability

A point is chosen at random on AD. Find the probability that it lies on BD.



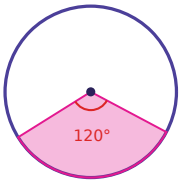
Task card 7 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 3 and 7. Find the probability that it lands in the shaded ring.



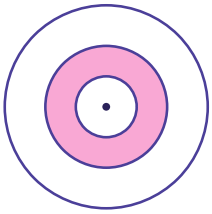
Task card 8 Geometric Probability

The shaded sector of the spinner has a central angle of 120°. Find the probability that the spinner lands in the shaded sector.



Task card 9 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 3, 6 and 10. Find the probability that it lands in the shaded ring.



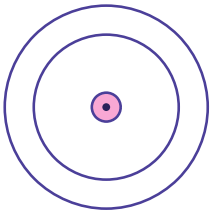
Task card 10 Geometric Probability

A point is chosen at random on AD. Find the probability that it lies on CD.



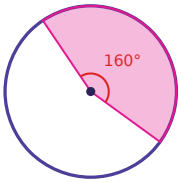
Task card 11 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 5 and 7. Find the probability that it lands in the shaded center circle.



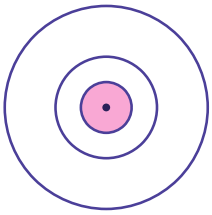
Task card 12 Geometric Probability

The shaded sector of the spinner has a central angle of 160°. Find the probability that the spinner lands in the shaded sector.



Task card 13 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 2 and 4. Find the probability that it lands in the shaded center circle.



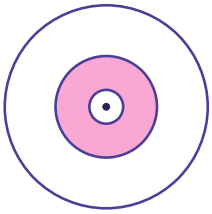
Task card 14 Geometric Probability

A point is chosen at random on AD. Find the probability that it lies on BD.



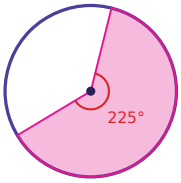
Task card 15 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 3 and 6. Find the probability that it lands in the shaded ring.



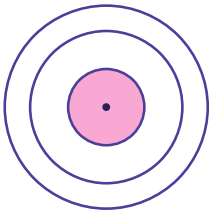
Task card 16 Geometric Probability

The shaded sector of the spinner has a central angle of 225°. Find the probability that the spinner lands in the shaded sector.



Task card 17 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 3, 6 and 8. Find the probability that it lands in the shaded center circle.



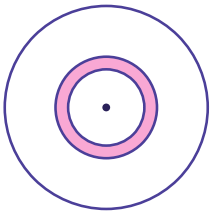
Task card 18 Geometric Probability

A point is chosen at random on AD. Find the probability that it lies on AC.



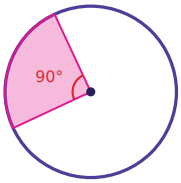
Task card 19 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 3, 4 and 8. Find the probability that it lands in the shaded ring.



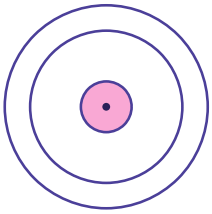
Task card 20 Geometric Probability

The shaded sector of the spinner has a central angle of 90°. Find the probability that the spinner lands in the shaded sector.



Task card 21 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 3 and 4. Find the probability that it lands in the shaded center circle.



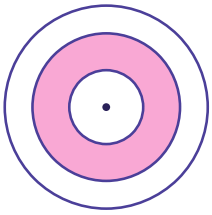
Task card 22 Geometric Probability

A point is chosen at random on AD. Find the probability that it lies on CD.



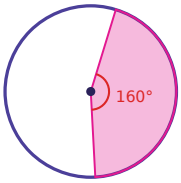
Task card 23 Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 4, 8 and 11. Find the probability that it lands in the shaded ring.



Task card 24 Geometric Probability

The shaded sector of the spinner has a central angle of 160°. Find the probability that the spinner lands in the shaded sector.



Geometric Probability Task Cards

Recording sheet · Grade 10 · Write probabilities as fractions in simplest form. When π is used, use π ≈ 3.14 and round to the nearest hundredth.

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

Geometric Probability Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. $\frac{1}{9}$	**2.** $\frac{3}{4}$	**3.** $\frac{3}{16}$
4. $\frac{5}{18}$	**5.** $\frac{3}{11}$	**6.** $\frac{3}{4}$
7. $\frac{8}{49}$	**8.** $\frac{1}{3}$	**9.** $\frac{27}{100}$
10. $\frac{5}{24}$	**11.** $\frac{1}{49}$	**12.** $\frac{4}{9}$
13. $\frac{1}{16}$	**14.** $\frac{5}{6}$	**15.** $\frac{2}{9}$
16. $\frac{5}{8}$	**17.** $\frac{9}{64}$	**18.** $\frac{9}{16}$
19. $\frac{7}{64}$	**20.** $\frac{1}{4}$	**21.** $\frac{1}{16}$
22. $\frac{3}{13}$	**23.** $\frac{48}{121}$	**24.** $\frac{4}{9}$