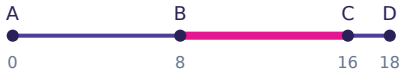
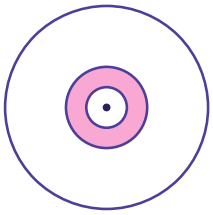
**Task card 1** Geometric Probability

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



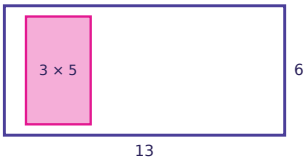

**Task card 2** Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 2 and 5. Find the probability that it lands in the shaded ring.



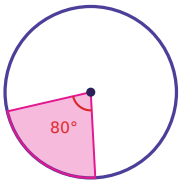
**Task card 3** Geometric Probability

A point is chosen at random inside the large rectangle. Find the probability that it lies in the shaded rectangle.




**Task card 4** Geometric Probability

The shaded sector of the spinner has a central angle of 80°. Find the probability that the spinner lands in the shaded sector.



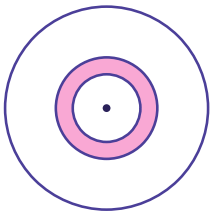

**Task card 5** Geometric Probability

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



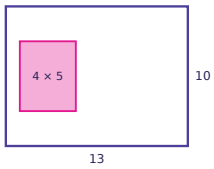

**Task card 6** Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 2, 3 and 6. Find the probability that it lands in the shaded ring.



**Task card 7** Geometric Probability

A point is chosen at random inside the large rectangle. Find the probability that it lies in the shaded rectangle.



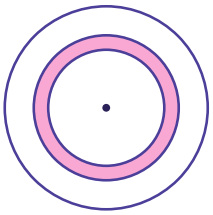

**Task card 8** Geometric Probability

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



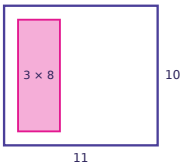

**Task card 9** Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 4, 5 and 7. Find the probability that it lands in the shaded ring.



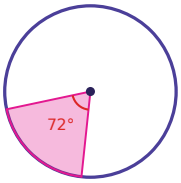
**Task card 10** Geometric Probability

A point is chosen at random inside the large rectangle. Find the probability that it lies in the shaded rectangle.



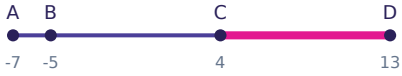

**Task card 11** Geometric Probability

The shaded sector of the spinner has a central angle of 72°. Find the probability that the spinner lands in the shaded sector.



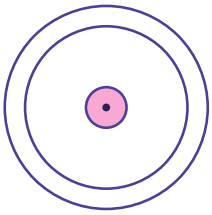

**Task card 12** Geometric Probability

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



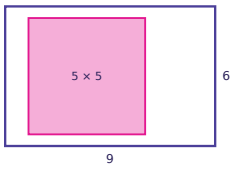
**Task card 13** Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 1, 4 and 5. Find the probability that it lands in the shaded center circle.



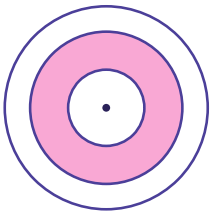
**Task card 14** Geometric Probability

A point is chosen at random inside the large rectangle. Find the probability that it lies in the shaded rectangle.




**Task card 15** 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 ring.



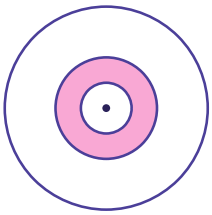
**Task card 16** Geometric Probability

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



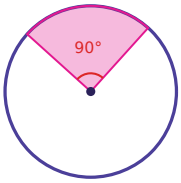

**Task card 17** Geometric Probability

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 18** 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.



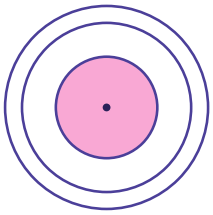
**Task card 19** Geometric Probability

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



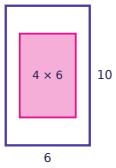

**Task card 20** Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 3, 5 and 6. Find the probability that it lands in the shaded center circle.



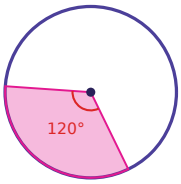
**Task card 21** Geometric Probability

A point is chosen at random inside the large rectangle. Find the probability that it lies in the shaded rectangle.



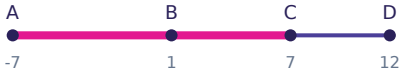

**Task card 22** Geometric Probability

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



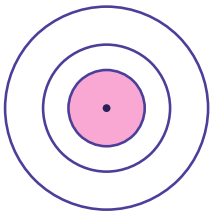

**Task card 23** Geometric Probability

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




**Task card 24** Geometric Probability

A dart lands at a random point on the circular target. The circles have radii 3, 5 and 8. Find the probability that it lands in the shaded center circle.



# 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 · Medium

The answers online

| | | |
|---|---|---|
| **1.** $\frac{4}{9}$ | **2.** $\frac{3}{25}$ | **3.** $\frac{5}{26}$ |
| **4.** $\frac{2}{9}$ | **5.** $\frac{2}{7}$ | **6.** $\frac{5}{36}$ |
| **7.** $\frac{2}{13}$ | **8.** $\frac{1}{3}$ | **9.** $\frac{9}{49}$ |
| **10.** $\frac{12}{55}$ | **11.** $\frac{1}{5}$ | **12.** $\frac{9}{20}$ |
| **13.** $\frac{1}{25}$ | **14.** $\frac{25}{54}$ | **15.** $\frac{27}{64}$ |
| **16.** $\frac{2}{15}$ | **17.** $\frac{3}{16}$ | **18.** $\frac{1}{4}$ |
| **19.** $\frac{5}{7}$ | **20.** $\frac{1}{4}$ | **21.** $\frac{2}{5}$ |
| **22.** $\frac{1}{3}$ | **23.** $\frac{14}{19}$ | **24.** $\frac{9}{64}$ |