# Geometry and Measurement Practice Problems

Mathematics · Practice Test · 33 Questions

**1. What is the accuracy required for rounding in problem 1?**

A) 100 meters
B) 10 meters
C) 1000 meters
D) 1 meter

**2. Which of the following is an exact value?**

A) The number of seats in the Riksdag
B) Melina's height
C) The population of Denmark
D) Lykke paying with a 500-kronor bill

**3. If a pack of two t-shirts costs 289 kr, what is the estimated price of one t-shirt?**

A) 145 kr
B) 144.50 kr
C) 150 kr
D) 140 kr

**4. Convert 750 cm to meters.**

A) 7.5 m
B) 0.75 m
C) 75 m
D) 7500 m

**5. Calculate the perimeter of the figure.**

A) 11.1 cm
B) 11.1 cm
C) 11 cm
D) 11.2 cm

**6. Calculate the area of the parallelogram.**

A) 1700 $m^2$
B) 170 $m^2$
C) 17000 $m^2$
D) 17 $m^2$

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**7. Calculate the area of the triangle.**

A) 12 $cm^2$
B) 120 $cm^2$
C) 6 $cm^2$
D) 1.2 $cm^2$

**8. Calculate the area of the polygon.**

A) 6.5 $cm^2$
B) 65 $cm^2$
C) 650 $cm^2$
D) 0.65 $cm^2$

**9. What is the side length of a square with an area of 49 $cm^2$?**

A) 7 cm
B) 24.5 cm
C) 12.25 cm
D) 2401 cm

**10. Calculate the hypotenuse of a right-angled triangle with legs of 9 and 12.**

A) 15
B) 21
C) 180
D) 225

**11. Calculate the unknown leg of a right-angled triangle if the hypotenuse is 50 and one leg is 48.**

A) 14
B) 12
C) 98
D) 2500

**12. Calculate the ratio between the circumference and diameter of a pipe with a circumference of 15 cm and a diameter of 4.8 cm, rounded to two decimal places.**

A) 3.13
B) 3.125
C) 3.14
D) 3.12

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**13. Calculate the circumference of a circle with a radius of 14 cm.**

A) 87.96 cm
B) 43.98 cm
C) 28 cm
D) 27.99 cm

**14. Calculate the area of a circle with a radius of 8.8 cm.**

A) 246.30 $cm^2$
B) 4.4 $cm^2$
C) 25.64 $cm^2$
D) 4.4 cm

**15. Calculate the radius of a circle with an area of 12.0 $m^2$.**

A) 1.95 m
B) 3.89 m
C) 1.09 m
D) 0.97 m

**16. Calculate the circumference of a circle with a diameter of 45 cm.**

A) 141.37 cm
B) 70.69 cm
C) 22.5 cm
D) 45 cm

**17. Calculate the arc length of a 100° arc on a circle with a diameter of 82 cm.**

A) 71.77 cm
B) 143.54 cm
C) 257.61 cm
D) 82 cm

**18. Calculate the area of a sector with a radius of 25 cm and a central angle of 85°.**

A) 552.91 $cm^2$
B) 1178.10 $cm^2$
C) 106.25 $cm^2$
D) 85 $cm^2$

**19. Calculate the area of a cross-section of a tree with a circumference of 87 cm.**

A) 604.5 $cm^2$
B) 1209 $cm^2$
C) 19.4 $cm^2$
D) 38.7 $cm^2$

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**20. On what area can a dog move if it's tethered to a wall with a 7.0 m rope?**

A) 49 m²
B) 153.9 m²
C) 38.5 m²
D) 154 m²

**21. Calculate the area of a regular hexagon with a side length of 44 cm.**

A) 1284.3 cm²
B) 75.4 cm²
C) 6338.9 cm²
D) 12677.8 cm²

**22. How far does a car travel when its 70 cm diameter tire spins 4,000 revolutions?**

A) 8.8 km
B) 88 km
C) 880 km
D) 0.88 km

**23. What is the area of a square with a side length of 5.0 cm?**

A) 25 cm²
B) 10 cm²
C) 20 cm²
D) 5 cm²

**24. Calculate the area of the colored region (a circle inside a square).**

A) 19.63 cm²
B) 5.37 cm²
C) 25 cm²
D) 14.63 cm²

**25. Calculate the circumference of a circle with a radius of 11.8 cm.**

A) 74.1 cm
B) 23.6 cm
C) 37.07 cm
D) 137.4 cm

**26. Calculate the area of a circle with a radius of 6.0 m. If the radius increases by 3.0 m, how much does the area increase?**

A) 28.27 m²
B) 63.62 m²
C) 94.25 m²
D) 35.34 m²

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**27. Calculate the area of the colored region.**

A) 10.18 cm²
B) 3.14 cm²
C) 6.28 cm²
D) 2.0 cm²

**28. Calculate the area of the part of the ceramic stove outside the circles.**

A) 2720 cm²
B) 1360 cm²
C) 1450 cm²
D) 59 cm²

**29. How long does it take for the Earth to complete one orbit around the Sun if the distance is 150,000,000 km and the speed is approximately 30 km/s?**

A) 5,000,000 seconds
B) 50,000,000 seconds
C) 5,000,000 minutes
D) 5,000,000 hours

**30. Calculate the area of the yellow region in a wrestling mat.**

A) 10.1 m²
B) 70.8 m²
C) 101 m²
D) 110 m²

**31. What is the area of a parallelogram with a base of 4.5 cm and a height of 2.8 cm?**

A) 12.6 cm²
B) 7.3 cm²
C) 12 cm²
D) 13 cm²

**32. Calculate the area of a trapezoid with parallel sides of 4.1 cm and 4.5 cm, and a height of 2.8 cm.**

A) 12.04 cm²
B) 12 cm²
C) 15.96 cm²
D) 8.6 cm²

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**33. Calculate the area of a polygon.**

A) 163400 $m^2$
B) 160000 $m^2$
C) 16 ha
D) 160 ha

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