





Q14. [Easy] Polygon Interior Angle Sum

What is the sum of the interior angles of a hexagon (6 sides)?

Hint:  $Sum = (n - 2) \times 180$  degrees

- A) 540 degrees  
B) 900 degrees  
C) 720 degrees  
D) 1080 degrees

Q15. [Easy] Circumference of Circle

A circle has diameter = 10 cm. Find its circumference. ( $\pi = 3.14$ )

Hint:  $C = \pi \times d$  (use DIAMETER here, not radius).

- A) 31.4 cm<sup>2</sup>  
B) 31.4 cm  
C) 78.5 cm  
D) 15.7 cm

Q16. [Medium] Area of Circle

A circle has radius = 7 cm. Find its area. ( $\pi = 3.14$ )

Hint:  $Area = \pi \times r^2$  (use RADIUS, then SQUARE it).

- A) 43.96 cm<sup>2</sup>  
B) 153.86 cm<sup>2</sup>  
C) 21.98 cm<sup>2</sup>  
D) 615.44 cm<sup>2</sup>

Q17. [Easy] Pythagorean Theorem

A right triangle has legs of 6 and 8. Find the hypotenuse.

Hint:  $a^2 + b^2 = c^2 \rightarrow c = \sqrt{a^2 + b^2}$

- A) 7  
B) 14  
C) 10  
D)  $\sqrt{28}$

Q18. [Medium] Inscribed Angle Theorem

A central angle is 80 degrees. Find the inscribed angle intercepting the same arc.

Hint:  $Inscribed\ angle = (1/2) \times central\ angle$ .

- A) 80 degrees  
B) 160 degrees  
C) 40 degrees  
D) 20 degrees

Q19. [Medium] Regular Polygon — Each Interior Angle

Find each interior angle of a regular octagon (8 sides).

Hint:  $Each\ angle = (n - 2) \times 180$  degrees divided by  $n$ .

- A) 120 degrees  
B) 144 degrees  
C) 135 degrees  
D) 150 degrees

Q20. [Medium] Tangent and Radius

Radius = 5 cm, distance from center to external point = 13 cm. Find the tangent segment length.

Hint:  $Tangent\ is\ perpendicular\ to\ radius \rightarrow use\ Pythagorean\ theorem!$

- A) 8 cm  
B) 12 cm  
C) 18 cm  
D)  $\sqrt{194}$  cm

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**ANSWER KEY**

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|-------|--------|
| Q1: B | Q11: B |
| Q2: C | Q12: B |
| Q3: C | Q13: C |

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Q4: B

Q14: C

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Q5: B

Q15: B

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Q6: C

Q16: B

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Q7: B

Q17: C

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Q8: B

Q18: C

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Q9: B

Q19: C

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Q10: C

Q20: B