

# AREA FORMULAS

Area formulas help us find out the amount of space occupied by various kinds of shapes. In real life, calculating the area of different kinds of spaces helps us correctly determine the stretch of a particular space enclosed by a boundary. This procedure is beneficial in the profession of architecture and construction to decide reasonable and accurate prices of land.

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**Q1: What is the formula for computing the area of a rectangle?**

A:  $A = l * w$

B:  $A = 2 * (l + w)$

C:  $A = l + w$

D:  $A = l / w$

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**Q2: If the length of a rectangle is 8 cm and the width is 5 cm, what is its area?**

A:  $40 \text{ cm}^2$

B:  $13 \text{ cm}^2$

C:  $26 \text{ cm}^2$

D:  $15 \text{ cm}^2$

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**Q3: What is the formula for computing the area of a triangle?**

A:  $A = 1/2 * b * h$

B:  $A = l * w$

C:  $A = \pi * r^2$

D:  $A = 2 * (b + h)$

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**Q4: What is the area formula for rhombus?**

A:  $d1 * d2$

B:  $d1 * d2 / 2$

C:  $d1 + d2$

D:  $d1 / d2$

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**Q5: What is the area formula for circles?**

A:  $\pi r^2$

B:  $\pi^2$

C:  $\pi r * 2$

D:  $\pi r^2$

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**Q6: What is the area formula for parallelograms?**

- A:  $b * h$   
B:  $b / h$   
C:  $2bh$   
D:  $b * h$
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**Q7: What is the area formula for the sector of a circle?**

- A:  $\theta/360 + \pi r^2$   
B:  $\theta/360/\pi r^2$   
C:  $\theta/360 * 2 * \pi r^2$   
D:  $\theta/360 * \pi r^2$
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**Q8: What is the area formula for a segment of a circle?**

- A:  $1/2r^2 (\theta + \sin \theta)$   
B:  $1/2r^2 (\theta/\sin \theta)$   
C:  $1/2r^2 (\theta - \sin \theta)$   
D:  $1/2r^2 (-\sin \theta)$
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**Q9: What is the area formula for a square?**

- A:  $2s$   
B:  $s^2$   
C:  $s/2$   
D:  $2s/r$
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**Q10: What is the area formula for an equilateral triangle?**

- A:  $\sqrt{3}/4 * s^2$   
B:  $\sqrt{3}/4/s^2$   
C:  $\sqrt{3}/4 + s^2$   
D:  $\sqrt{3}/2 * s^2$
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## Answers

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**Q1:**  $A - A = l * w$

**Q2:**  $A - 40 \text{ cm}^2$

**Q3:**  $A - A = 1/2 * b * h$

**Q4:**  $B - d1 * d2/2$

**Q5:**  $C - \pi r * 2$

**Q6:**  $D - b * h$

**Q7:**  $D - \theta/360 * \pi r^2$

**Q8:**  $C - 1/2r^2 (\theta - \sin \theta)$

**Q9:**  $B - s^2$

**Q10:**  $A - \sqrt{3}/4 * s^2$