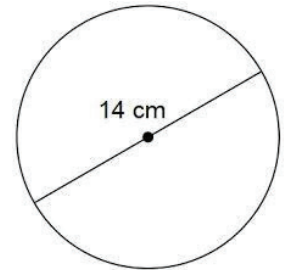




AREA AND PERIMETER

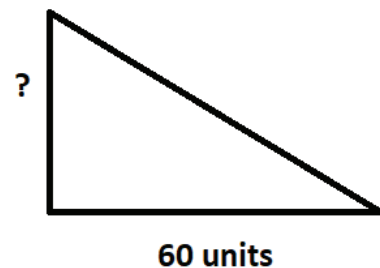
**Q1. A circle has a diameter of 14cm.
What is the area of the circle?(Take $\pi = 22/7$)**

- a. 34 cm²
- b. 154 cm²
- c. 152 cm²
- d. 160 cm²



Q2. Find the height of a right triangle, given its area to be 420 square units and its base to be 60 units.

- a. 20 units
- b. 15 units
- c. 13 units
- d. 14 units



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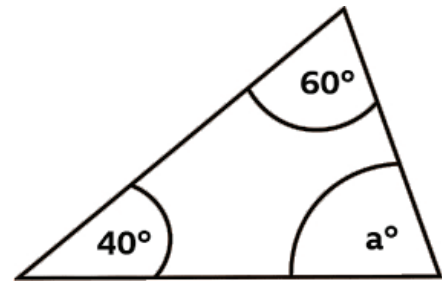
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AREA AND PERIMETER

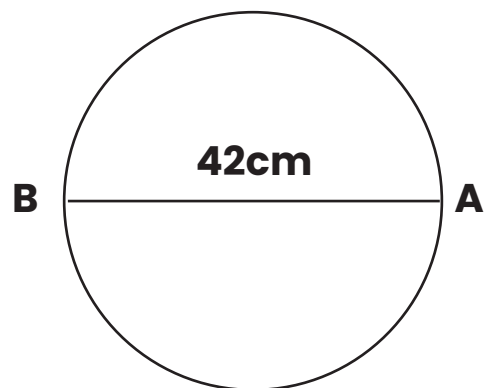
Q3. In the given triangle, find angle a.

- a. 70°
- b. 60°
- c. 80°
- d. 78°



Q4. Sam and Karan are friends. In the given figure, Sam is standing at point A whereas Karan is standing at point B. Sam starts moving towards Karan by walking along the border of the circular garden. How much distance Sam has to cover to meet his friend Karan? (Take $\pi = 22/7$)

- a. 65 cm
- b. 66 cm
- c. 70 cm
- d. 67 cm



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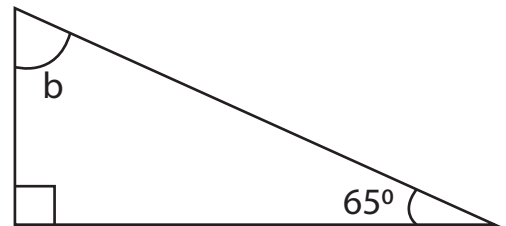


AREA AND PERIMETER

Q5. In the given figure, find angle b.

- a. 65°
- b. 71°
- c. 72°
- d. 75°

Remember a right angle is 90°



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MATCH THE ANSWERS

1. **Ans) $r = \frac{\text{diameter}}{2} = \frac{14}{2} = 7 \text{ cm}$**

Area of circle = $\pi r^2 = \frac{22}{7} \times 7 \times 7 = 154 \text{ cm}^2$

So, Option (b) is correct.

2. **Ans) Given,**

Base(b)=60 units , Area= 420 square units

Area of right triangle = $\frac{1}{2} \times b \times h$

$420 = \frac{1}{2} \times 60 \times h$

$h = 420/30 = 14 \text{ units}$

So, Option (d) is correct.

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MATCH THE ANSWERS

3. **Ans) Angle sum of a triangle = 180°**

$$60^\circ + 40^\circ + a^\circ = 180^\circ$$

$$a^\circ = 180^\circ - 100^\circ = 80^\circ$$

So, Option (c) is correct.

4. **Ans) Distance between A and B = $\frac{1}{2} \times$ Circumference of Circular garden**

$$= \frac{1}{2} \times 2 \times \pi \times \frac{d}{2}$$

$$= \frac{1}{2} \times 2 \times \frac{22}{7} \times \frac{42}{2}$$

$$= 66 \text{ cm}$$

So, Option (b) is correct.

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MATCH THE ANSWERS

5. **Ans) We know,**

Angle sum of a triangle= 180°

$$90^\circ + b + 19^\circ = 180^\circ$$

$$b = 180^\circ - 109^\circ$$

$$b = 71^\circ$$

So, Option (b) is correct.

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