

1. Find the area of a rectangle of sides 8 cm and 5 cm.

2. Find the x-component of $(4,1)+(1,3)$.

3. Find the midpoint x-coordinate between $(0,0)$ and $(6,0)$.

4. Find the straight-line neighbour of 68° .

5. Find the diameter when radius is 5 cm.

6. The reverse bearing of 070° is 290° .

☐ True ☐ False

7. The height must be perpendicular to the base.

☐ True ☐ False

8. The perimeter of a semicircle is half the circumference plus the diameter.

☐ True ☐ False

9. Sector means a circle region bounded by two radii and their intervening arc.

☐ True ☐ False

10. If two vectors are parallel, any three points used in their diagrams must be collinear.

☐ True ☐ False

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1. **40.0**

Rectangle area= $8 \times 5 = 40 \text{ cm}^2$.

2. **5.0**

Add the x-components: $4 + 1 = 5$.

3. **3.0**

Midpoint x-coordinate= $(0 + 6) / 2 = 3$.

4. **112.0**

$180 - 68 = 112^\circ$.

5. **10.0**

Diameter= $2 \times 5 = 10 \text{ cm}$.

6. **False**

Add or subtract 180° : the reverse bearing of 070° is 250° .

7. **True**

True. The height must be perpendicular to the base; the sloping side is longer than the height.

8. **True**

True. The perimeter of a semicircle is half the circumference plus the diameter.

9. **True**

True: A circle region bounded by two radii and their intervening arc.

10. **False**

Parallel vectors give collinear points only when the vectors also share a point.