

4. Geometry and measures

Starter Quiz ·

AQA · GCSE · Mathematics

Name: _____ Score: _____

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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Answers ·

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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.