IGCSE Mathematics Name: _____ Score: _____

1. An angle of 40° is called:

   ☐ right

   ☐ acute

   ☐ reflex

   ☐ obtuse

2. Three angles on a straight line are x, 50° and 70°. Find x (degrees).

   _____

3. What three-figure bearing points due east?

   _____

4. How many lines of symmetry does a square have?

   _____

5. Two similar shapes have lengths in the ratio 2:3. The area ratio is 4:b. What is b?

   _____

6. The angle in a semicircle is how many degrees?

   _____

7. To construct a triangle from three given sides you mainly use a ruler and:

   ☐ a pair of compasses

   ☐ a calculator

   ☐ a set of scales

   ☐ a protractor only

8. An angle of 250° is an obtuse angle.

   ☐ True ☐ False

9. Vertically opposite angles (where two lines cross) are always equal.

   ☐ True ☐ False

10. Bearings are measured clockwise from north.

    ☐ True ☐ False

IGCSE Mathematics

1. **acute**

   Less than 90° is acute.

2. **60**

   x + 50 + 70 = 180, so x = 60°.

3. **90**

   Clockwise from north, east is 090°.

4. **4**

   Two diagonals and two through the side midpoints: 4 lines.

5. **9**

   Area scales by k^2: $2^2:3^2 = 4:9$, so b = 9.

6. **90**

   An angle standing on a diameter is always 90°.

7. **a pair of compasses**

   Compasses swing arcs of the correct length for the other two sides.

8. **False**

   250° is between 180° and 360°, so it is a reflex angle, not obtuse.

9. **True**

   When two lines cross, the angles opposite each other are equal.

10. **True**

    Always clockwise from north, written as three figures.