Practice worksheet | Geometry and transformations

Geometric constructions

Name: _____ Date: _____

6 questions | 19 marks

1. Draw an 8 cm segment and construct its perpendicular bisector. State a suitable radius. [4 marks]

2. Construct the bisector of a 60° angle. State the new angles. [3 marks]

3. Construct an equilateral triangle with side length 5 cm. Explain why the sides are equal. [4 marks]

4. A point P is equally far from A and B. On which line must P lie? [2 marks]

5. A student changes compass width between the arcs from A and B. Why does the usual proof fail? [3 marks]

6. Two circles have radius 4 cm and centres 8 cm apart. Why are they unsuitable for the usual two-crossing construction? [3 marks]