Practice worksheet | Ratio, rates and similarity

Corresponding lengths in similar figures

Name: _____ Date: _____

6 questions | 11 marks

1. If $\triangle ABC \sim \triangle KLM$, name the side corresponding to AC. [1 mark]

2. If $\triangle ABC \sim \triangle KLM$, name the angle corresponding to B. [1 mark]

3. Triangles have corresponding side lengths $(4, 6, 8)$ and $(6, 9, 12)$. Find the scale factor from first to second. [2 marks]

4. Two triangles have angles $(35^\circ, 65^\circ, 80^\circ)$ and $(80^\circ, 35^\circ, 65^\circ)$. Are they similar? Explain. [2 marks]

5. A learner uses $AB/DE = BC/DF$ for $\triangle ABC \sim \triangle DEF$. Explain the mismatch. [3 marks]

6. Can sides $(3, 4, 5)$ and $(6, 8, 11)$ be corresponding sides of similar triangles? [2 marks]