Practice worksheet | Ratio, rates and similarity

Finding missing lengths by similarity

Name: _____ Date: _____

6 questions | 14 marks

1. Two similar triangles have corresponding sides 5 cm and 15 cm. Find the scale factor from the first to the second. [2 marks]

2. With scale factor 3, an original side is 8 cm. Find its image length. [2 marks]

3. A 28 cm image side was made using scale factor 4. Find its original length. [2 marks]

4. Similar rectangles measure 8 cm by 5 cm and 20 cm by w cm. Find w. [2 marks]

5. A 1.8 m person casts a 1.2 m shadow. A flagpole casts a 6 m shadow at the same time on level ground. Find its height. [3 marks]

6. Similar triangles have perimeters 24 cm and 60 cm. A side of the larger is 22.5 cm. Find the corresponding smaller side. [3 marks]