Practice worksheet | Trigonometry

Right-triangle revision

Name: _____ Date: _____

6 questions | 18 marks

1. A right triangle has legs 9 cm and 12 cm. For the angle opposite 9 cm, find all three ratios. [3 marks]

2. Find the opposite side when the hypotenuse is 14 m and the angle is 30°. [3 marks]

3. The adjacent leg is 8 cm and the angle is 60°. Find the hypotenuse. [3 marks]

4. A ramp rises 1.2 m over a horizontal run of 4 m. Find its angle to one decimal place. [3 marks]

5. A wire makes 35° with horizontal ground and reaches 10 m horizontally. Find its length to two decimal places. [3 marks]

6. Explain why a right triangle cannot have hypotenuse 7 cm and leg 9 cm. [3 marks]