Practice worksheet | Pythagoras and Trigonometry

Multi-step right-triangle problems

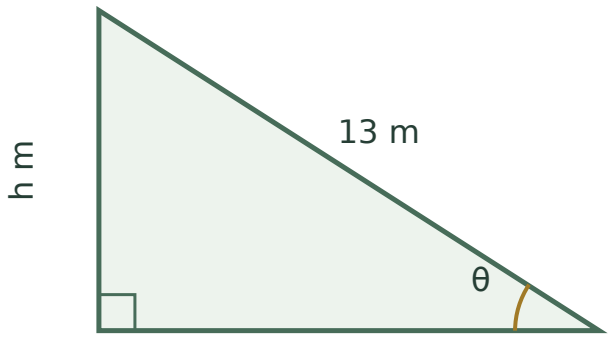
Name: _____ Date: _____

6 questions | 16 marks

1. Find the diagonal of a 9 cm by 12 cm rectangle. [2 marks]

2. A cuboid has perpendicular edges 3 m, 4 m and 12 m. Find its space diagonal. [3 marks]

3. A 13 m ladder has its foot 5 m from a wall. How high does it reach? [2 marks]



Sketch not to scale

4. A rectangular garden has diagonal 26 m and width 10 m. Find its perimeter. [3 marks]

5. A symmetrical roof has span 16 m and rise 6 m. Find the total length of its two sloping edges. [3 marks]

6. A student claims a right triangle with hypotenuse 17 cm and leg 8 cm has other leg 19 cm. Correct the result and explain. [3 marks]