Practice worksheet | Pythagoras' theorem

Exact roots versus rounded answers

Name: _____ Date: _____

6 questions | 13 marks

1. Legs are 2 cm and 3 cm. Give the exact hypotenuse. [2 marks]

2. Hypotenuse 6 cm, leg 4 cm: give the other leg exactly. [2 marks]

3. Between which integers is $\sqrt{41}$? [2 marks]

4. A calculator gives 9.433981 for a length in metres. Round to 2 decimal places. [2 marks]

5. A calculator gives 6.0827625 for a length in centimetres. Round to 1 decimal place. [2 marks]

6. For legs 5 cm and 7 cm, a calculator gives $\sqrt{74} = 8.602325\ldots$. Give the exact answer, the answer to 2 decimal places, and an integer-bound check. [3 marks]