



Learner assessment · Pythagoras in two dimensions

GCSE Mathematics 1MA1 · L038 · 60 minutes

Total: 20 marks. Suggested time: 18 minutes. Questions are labelled NC/C.

1. Find the hypotenuse when the shorter sides are 5 cm and 12 cm. [NC] [3 marks]

2. Find the missing shorter side when $c=17$ cm and $b=8$ cm. [NC] [4 marks]

3. A rectangle is 15 m by 20 m. Find its diagonal. [NC] [3 marks]

4. A ladder reaches 4.8 m up a wall and stands 1.4 m from the wall. Find its length. [C] [4 marks]

5. Show whether a triangle with sides 9, 40 and 41 is right-angled. [NC] [4 marks]

6. Explain why Pythagoras cannot be used directly on every triangle. [NC] [2 marks]
