

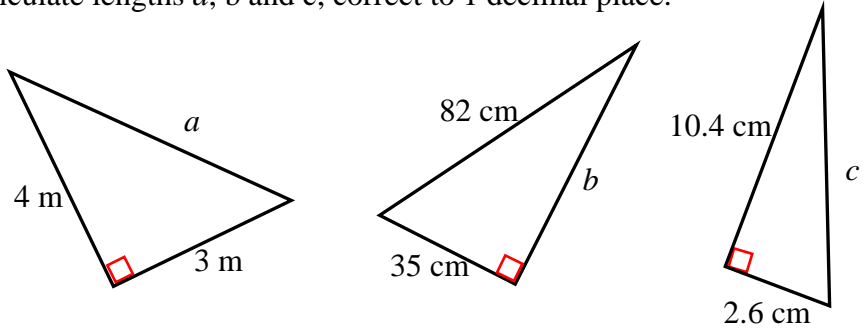
National 4
Homework Exercise 18
Pythagoras Theorem

1. Complete all calculations below **without a calculator**. Show all working!

- (a) 3×18.43 (b) $33.66 \div 3000$ (c) 60% of 30 kg

[4]

2. Calculate lengths a , b and c , correct to 1 decimal place.

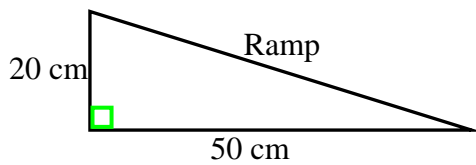


[12]

3. (a) Draw a coordinate diagram. Plot the 2 points A(2,8) and B(6,1).
 (b) By creating a right-angled triangle calculate the length of AB.

[5]

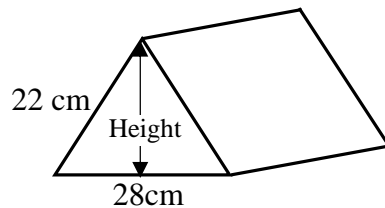
4. A ramp on a mountain bike looks like this:-



[4]

How long is the ramp?

5. A garden centre sells hedgehog shelters like the one shown.

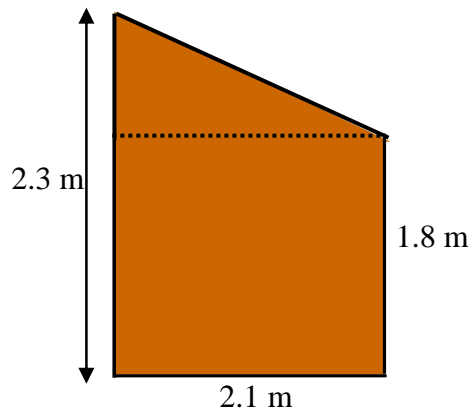


[5]

Calculate the height of the shelter.

6. The diagram shows a lean to shed.

Calculate the length of the sloping roof.



[5]