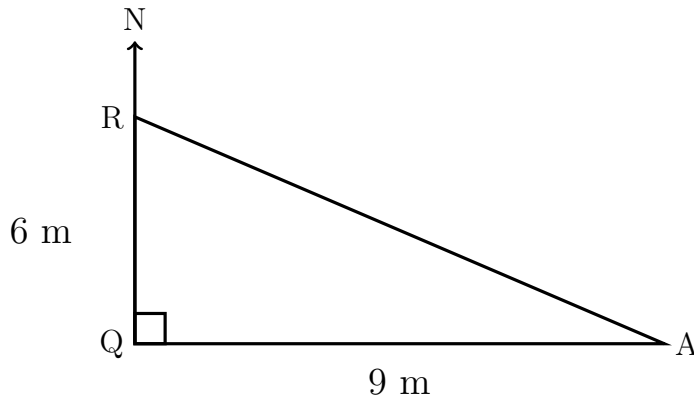


1.

1. not written yet

2. (a) The diagram shows the positions of three theme park characters A, Q and R.

Diagram NOT  
accurately drawn

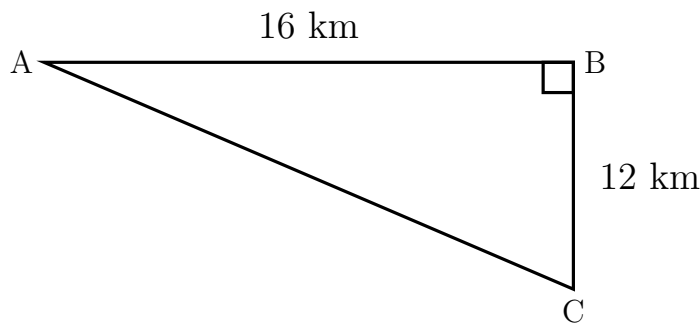
The rabbit R, is 6 metres due north of the queen, Q.

Alice, A is 9 metres due east of Q.

Calculate the distance AR between Alice and the rabbit.

Give your answer correct to 1 decimal place.

(b) Here is a right angled triangle.

Diagram NOT  
accurately drawn

$$AB = 15 \text{ km}$$

$$BC = 10 \text{ km}$$

Work out the length of AC.

3.

3. not written yet

4. (a) Here is a right angled triangle.

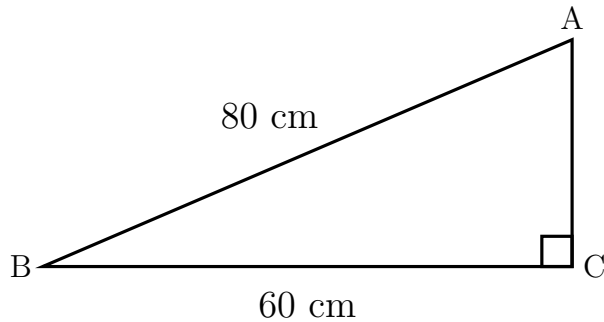


Diagram NOT  
accurately drawn

$$AB = 80 \text{ cm}$$

$$BC = 60 \text{ cm}$$

Work out the length of AC.

Give your answer correct to 1 decimal place.

- (b) In the diagram the right angled triangle ABC represents a ladder BC resting against a wall AC.

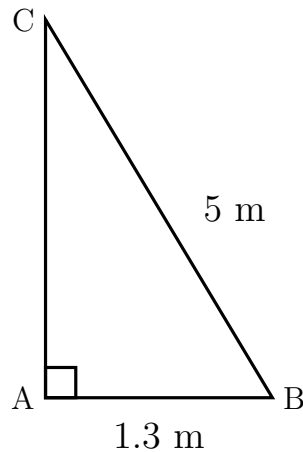


Diagram NOT  
accurately drawn

The distance AB between the base of the wall and the foot of the ladder is 1.3 m

The length of the ladder BC is 5 m

Calculate the height AC.