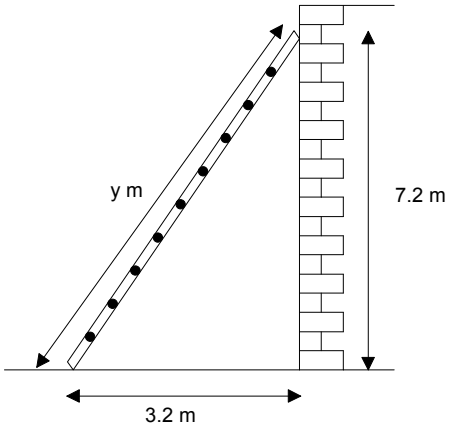
GCSE Trigonometry: Assessment C

Your Name:	**Tutor Group:**
End of GCSE target grade:	**Grade achieved:**

Grade C objectives	☺	😐	☹
• I can use Pythagoras' theorem to find any side of a right-angled triangle			
• I can use Pythagoras' theorem to find the height of an isosceles triangle			
• I can use Pythagoras' theorem in practical problems			

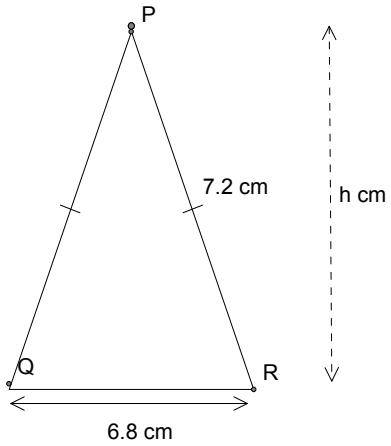
1.



A ladder is leaning up the side of a wall.
The ladder reaches 7.2 m up the wall.
The bottom of the ladder is 3.2 m away from the base of the wall.
Calculate y, the length of the ladder.

y = ... m [3]

2. PQR is an isosceles triangle.



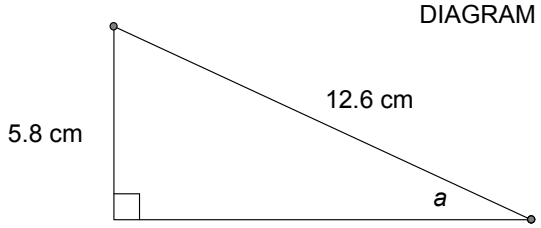
PQ = PR = 7.2 cm
QR = 6.8 cm
Calculate the height, *h*, of triangle PQR.

h = ……cm [3]

Grade B objectives	☺	😐	☹
• I can use sine, cosine and tangent to calculate an angle or a side in a right-angled triangle.			

3.

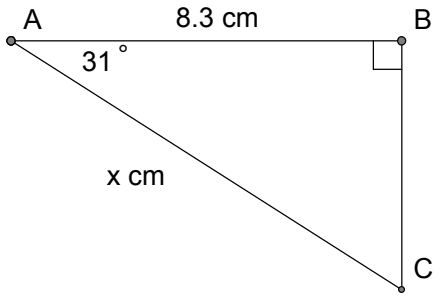
DIAGRAM NOT ACCURATELY DRAWN



Calculate the size of the angle marked *a.* Give your answer to one decimal place.

a = ...° [3]

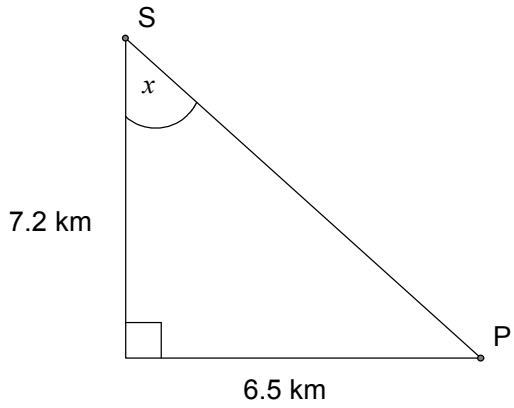
4. *ABC* is a right-angled triangle.
AB = 8.3 cm
Angle *CAB* = 31°



Find the length of *AC* (marked *x* in the diagram).
Give your answer to a suitable degree of accuracy.

x = ...cm [4]

5. A ship leaves a port P and sails 6.5 km due West and then 7.2 km due North.



a) Calculate the size of angle *x*. Give your answer correct to 3 significant figures.

x = ...° [2]

b) Calculate the bearing of the ship's final position, S, from the port, P.

.....° [1]

Teacher feedback:

In order to get to the next grade (or in order to improve the quality of your work) you should…

The following aspect of your work was particularly good …