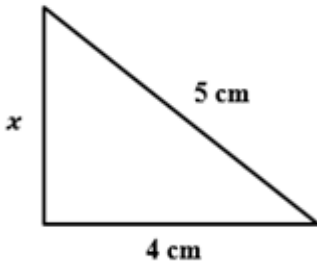


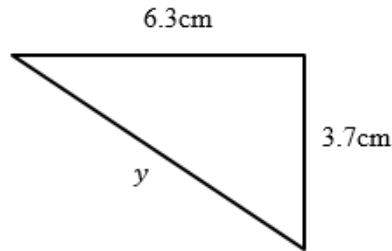
Pythagoras' Theorem

- 1) Find the length of the missing side in each of the following triangles. Round your answers to one decimal place where necessary.

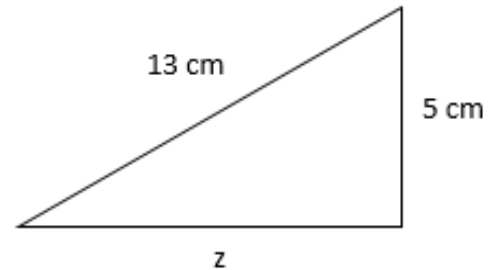
a)



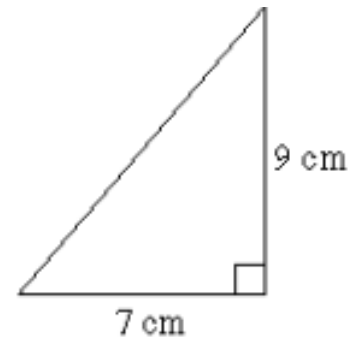
b)



c)



- 2) Calculate the perimeter of the triangle to the right, giving your answer to 1 decimal place.

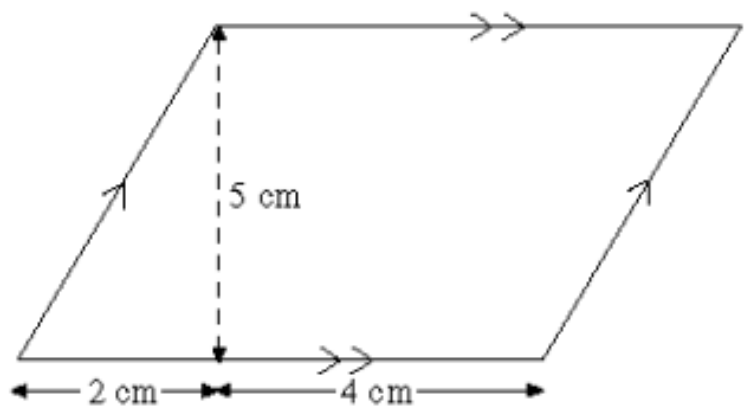


- 3) Find the distance between the points $(-2, 4)$ and $(5, 9)$.

- 4) A ladder 30 metres long leans against a vertical wall. The distance of the foot of the ladder from the base of the wall is 22 metres. Find how far up the wall the ladder reaches.

- 5) A ship sails 300km west and then 100km south. At the end of this journey, how far is the ship from its starting point?

- 6) Calculate the perimeter of the parallelogram, rounding your answer to 1 decimal place.



- 7) A square has a diagonal of length 6cm. How long is a side of the square?

Ans 1a) 3 b) 7.3 c) 12 2) 27.4 3) 8.6 4) 20.4m 5) 316km 6) 22.8cm 7) 4.2

3D Shapes

1) For the following 3D shapes:

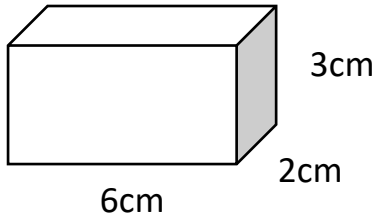
a) find the total surface area

b) draw a net

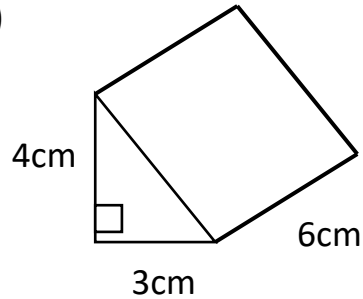
c) draw 3 part views

d) draw on isometric paper

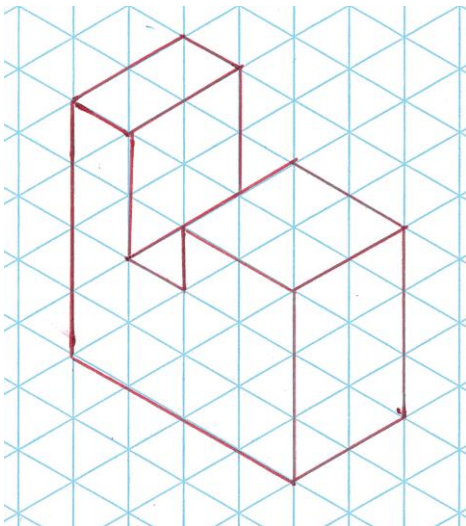
i)



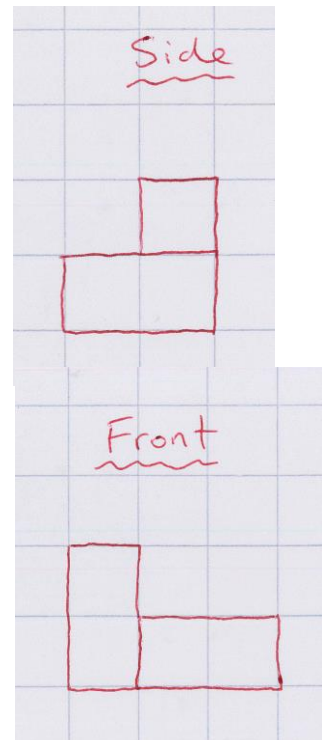
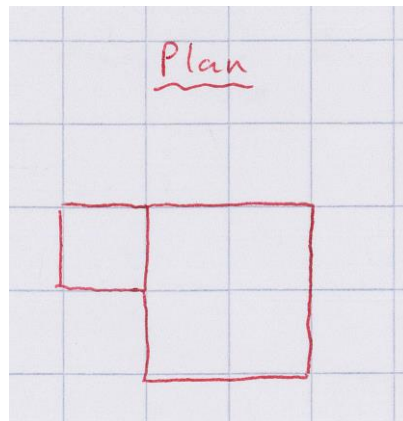
ii)



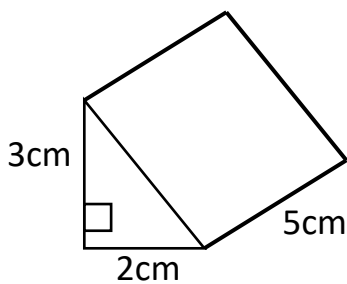
2) Draw 3 part elevations for the isometric drawing below



3) 3 part elevations for a 3D shape are given below, draw the shape on isometric paper



4) Find the total surface area of:



5) Draw a net of

