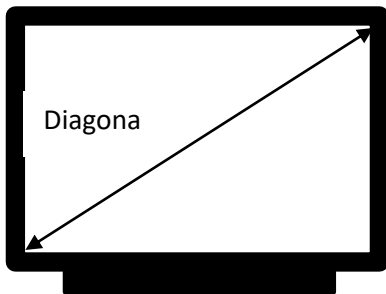**RATU NAVULA COLLEGE**

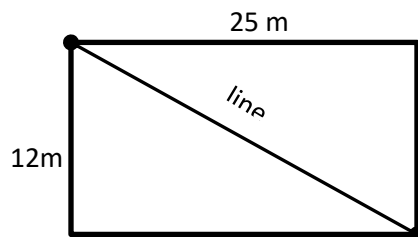**Y11 LIFE MATHEMATICS**

WORKSHEET 9 QP

1. The size of a TV screen is given by the length of its diagonal, rounded to the nearest centimetres.

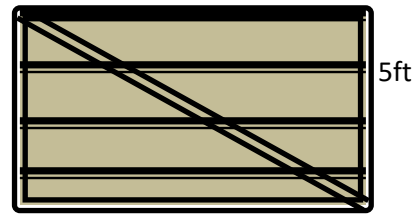   Calculate the length of a TV screen with a width of 45 cm and a height of 34 cm.

Diagona

2. A plane travels 45 miles due north and then 35 miles due West. How far is the plane from its point of departure?
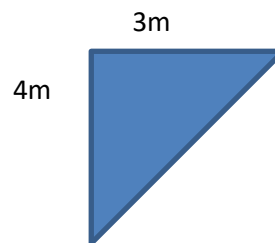
3. A clothes line is to be hung across a garden shown below. How long should it be?

25 m

line

12m

4. The diagonal of a gate is 9 feet long and the gate is 5 feet high. How wide is it?

5ft

5. A garden is in a shape of a right angle triangle.

3m

4m

   a) Find the perimeter of the garden.

   b) If posts are placed 1 m for fencing the garden, how many posts will be needed?

6. A diagonal brace is made for a door frame 2m by 1m. What is the length of the brace?

1m

2m