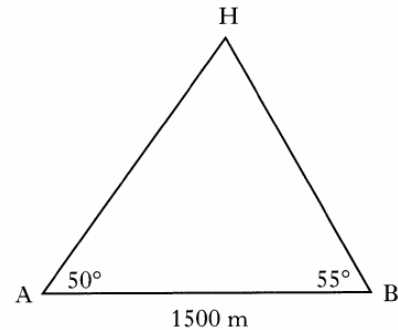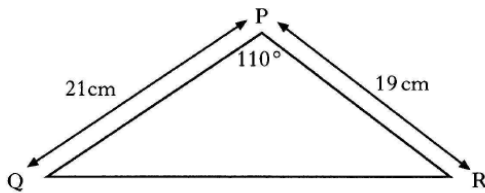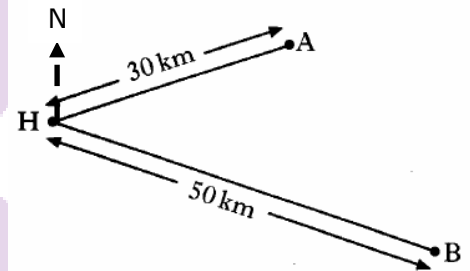## Calculators should be used and all answers rounded to 1 dp

Unit level:

1. Calculate the area of triangle PQR
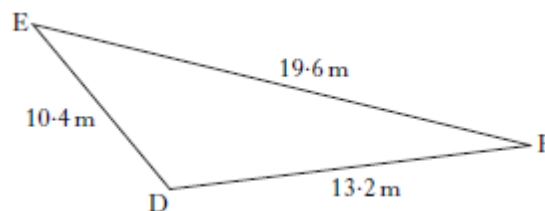

2. Calculate the distance from H to B.

3. Two yachts leave from Harbour H.
   Yacht A sails on a bearing of 072° for 30 km.

   Yacht B sails on a bearing of 140° for 50 km.

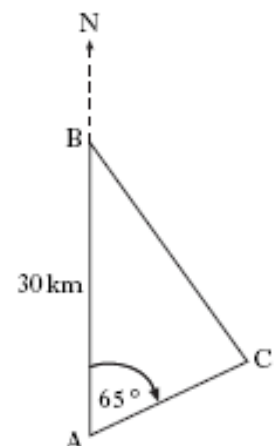   How far apart are the yachts at this point?

Assessment level:

4. Triangle *DEF* is shown below. Calculate the size of $\angle EDF$
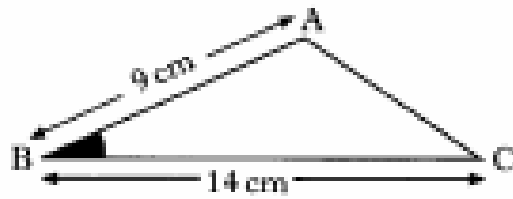

5. From Brunton, the bearing of Carlton is 153°
   From Appleton, the bearing of Carlton is 065°
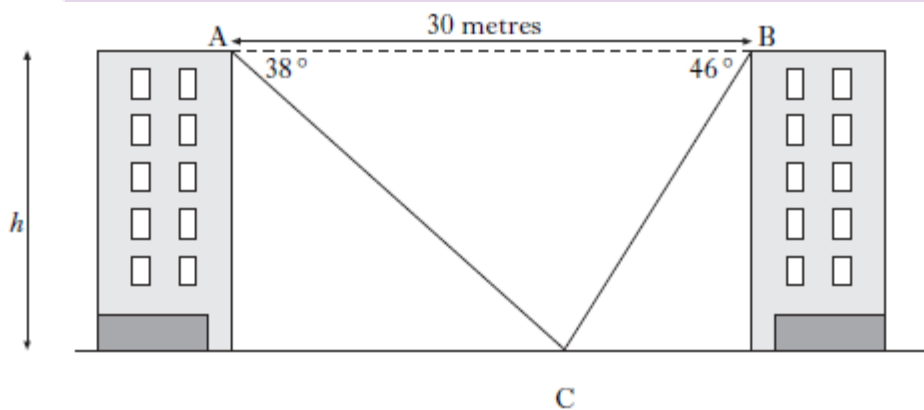
   Calculate the distance from Brunton to Carlton.

6. If $\sin x° = \frac{4}{5}$ and $\cos x° = \frac{3}{5}$, find the value of $\tan x°$

PTO

7. The area of triangle ABC is 38cm². Find the size of Angle B.
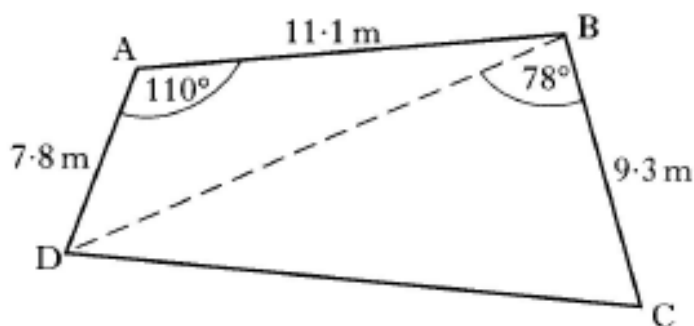

8. The diagram shows two blocks of flats of equal height.

Calculate the height, h, in metres.

9. A garden, in the shape of a quadrilateral, is represented in the diagram below.

(a) Calculate the length of the diagonal BD.

(b) Calculate the area of the garden.