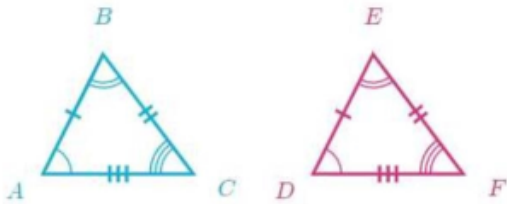
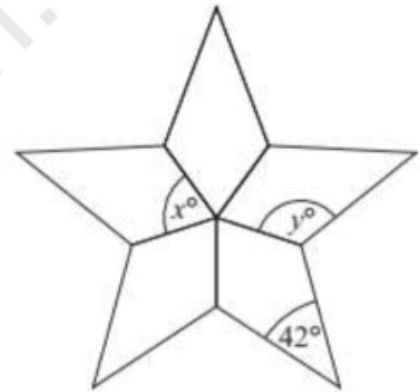




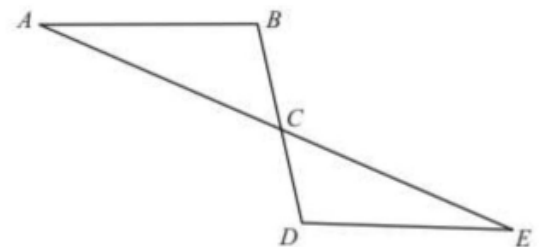
Congruent triangles have both the same shape and the same size. In the figure below, triangles ABC and DEF are congruent; they have the same angle measures and the same side lengths.



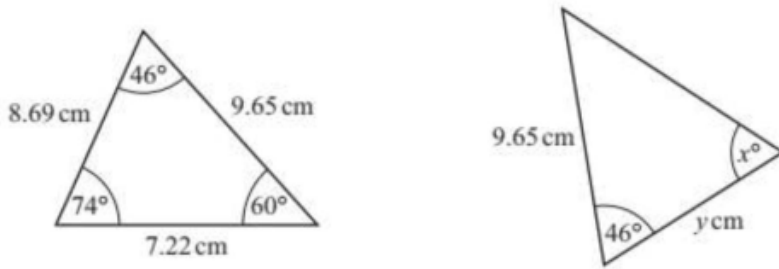
1. The diagram is made from 5 congruent kites. Work out the value of (a) x , [1] (b) y . [2]



2. The diagram shows two straight lines, AE and BD , intersecting at C . Angle $ABC =$ angle EDC . Triangles ABC and EDC are congruent. Write down two properties of line segments AB and DE . [2]



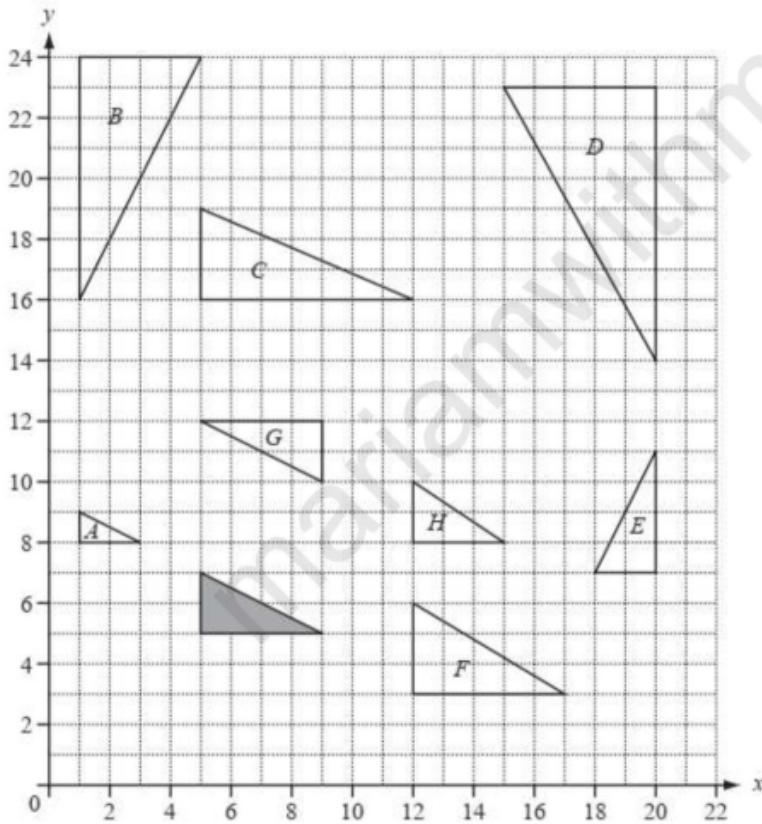
3. These two triangles are congruent.



Write down the value of

(a) x , [1] (b) y , [1]

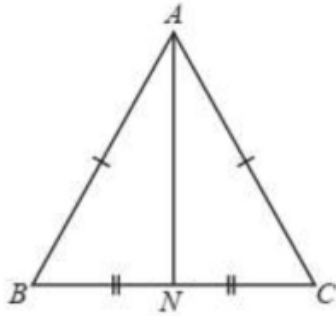
4. Write down the letters of all the triangles which are



(a) congruent to the shaded triangle, [2]

(b) similar, but not congruent, to the shaded triangle. [2]

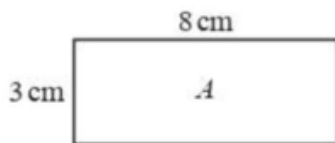
5. In the diagram, $AB = AC$ and $BN = NC$.



Complete the statement using a mathematical term.

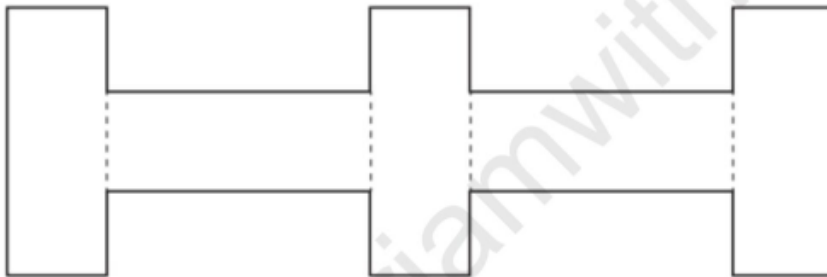
Triangle ABN is to triangle ACN. [1]

6. Rectangle A measures 3 cm by 8 cm.



NOT TO
SCALE

Five rectangles congruent to A are joined to make a shape.



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Work out the perimeter of this shape [2]

Answers

1. (a) 72 (b) 123 2. parallel and equal 3. (a) 74 (b) 8.69 4. (a) G, E (b) A, B 5. Congruent
6. 86