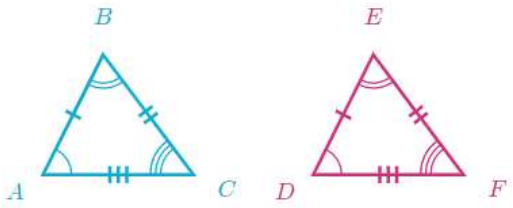
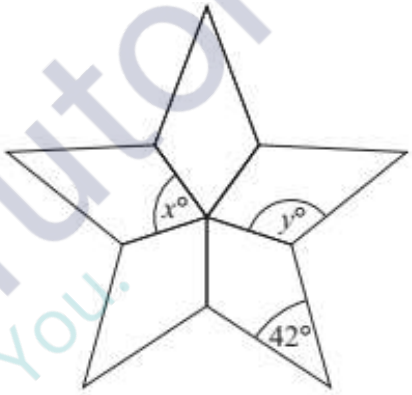
Past Papers Worksheet P2 **Congruency** **IGCSE Math 0580**



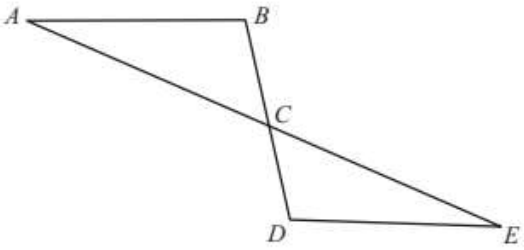
Congruent triangles have both the same shape and the same size. In the figure below, triangles ABC and DEF are congruent; they have the same angle measures and the same side lengths.



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

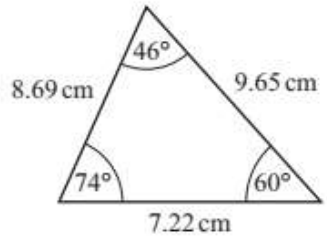


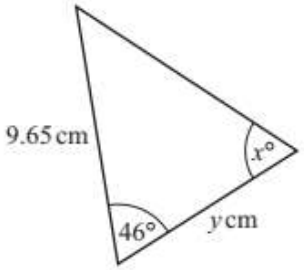
2. The diagram shows two straight lines, AE and BD, intersecting at C.
   Angle ABC = angle EDC. Triangles ABC and EDC are congruent.
   Write down two properties of line segments AB and DE. [2]



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3. These two triangles are congruent.

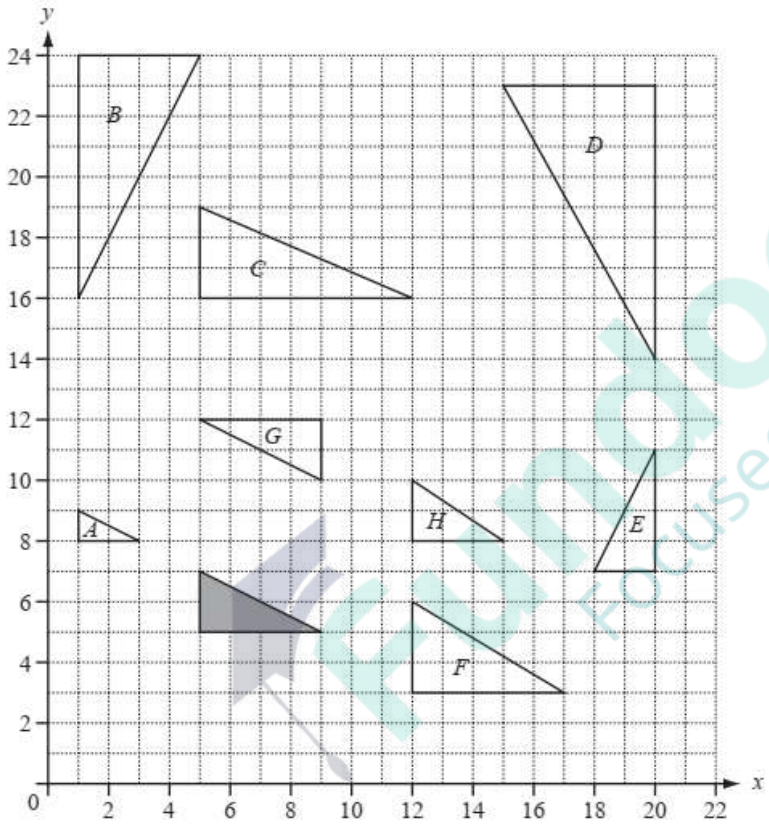




Write down the value of

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

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

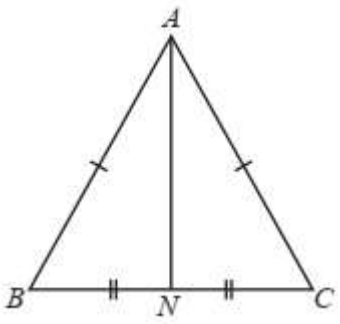


(a) congruent to the shaded triangle, [2]

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

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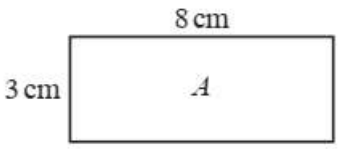
5. In the diagram, AB = AC and BN = NC.



Complete the statement using a mathematical term.

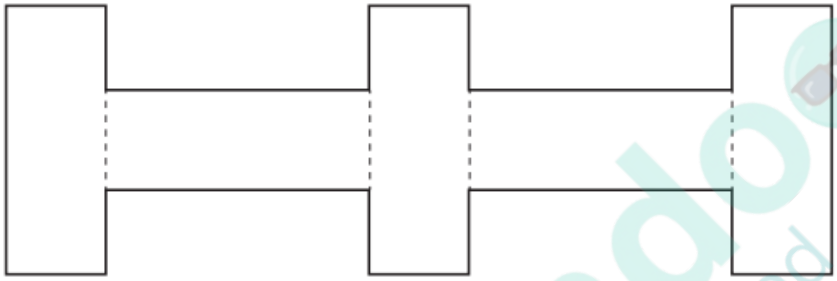
Triangle ABN is ..... to triangle ACN. [1]

6. Rectangle A measures 3cm by 8 cm.



NOT TO SCALE

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



NOT TO SCALE

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

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