Decide which statements are true, sometimes true or false.

- A regular polygon has equal sides but not equal angles.
- A triangle is a regular polygon.
- A rhombus and square are regular polygons.
- The number of angles is the same as the number of sides in any polygon.

Prove it!

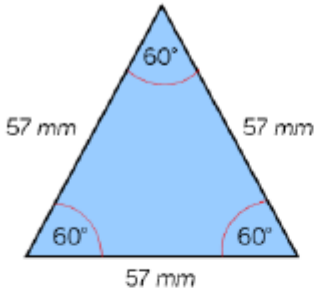
False– equal sides and equal angles

Sometimes true – the triangle must have equal sides and equal angles

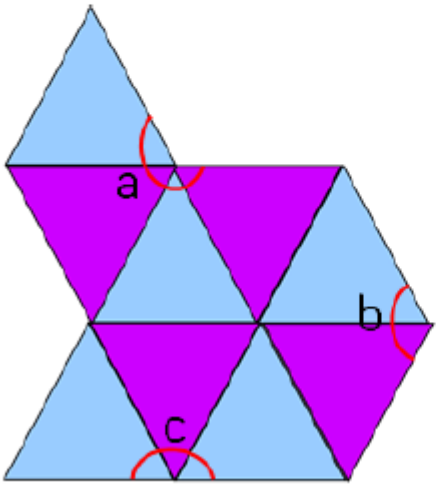
Sometimes true – rhombus has two different angles so is not regular

True

Alek has this triangle.




He makes this composite shape using identical triangles to the one above.




- Calculate the perimeter of the shape.
- Calculate the missing angles.

Perimeter =
57 × 10 = 570 mm

a = 60 × 4

a = 240°

b = 60 × 2

b = 120°

c = 60 × 3

c = 180°