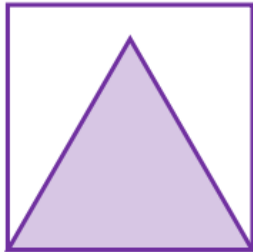


Here is a square.
Inside the square is an equilateral triangle.
The perimeter of the square is 60 cm.
Find the perimeter of the triangle.



1.



Eva

If I use 6 straws to make a triangle, I can only make an equilateral triangle.

Investigate whether Eva is correct.

Draw two more sides to create:

- An equilateral triangle
- A scalene triangle
- An isosceles triangle



2. Which is the hardest to draw?

Complete each of the boxes in the table with a different quadrilateral.

	4 equal sides	2 pairs of equal sides	1 pair of parallel sides
4 right angles			
No right angles			

Which box cannot be completed?

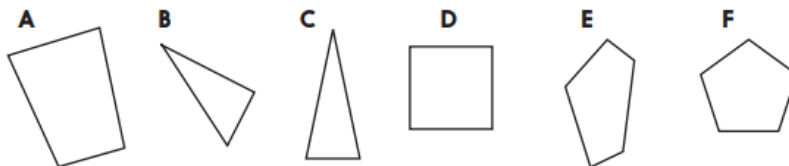
3. Explain why.

Always, sometimes or never true?

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

4.

Look at these shapes.









Match the shapes to each description below:

- A triangle: _____ and _____
 A quadrilateral: _____ and _____
 A pentagon: _____ and _____
 A symmetrical polygon: _____, _____ and _____
 A regular polygon: _____ and _____
 An irregular polygon: _____, _____, _____ and _____

5.

Properties of polygons Sheet 1

Complete this table by writing a tick in each box that is 'true'.

	square 	equilateral triangle 	irregular pentagon 	regular hexagon 	regular pentagon 	octagon 
all sides the same length						
one pair of parallel sides						
more than 1 pair of parallel sides						
5 sides						
more than 4 sides						
less than 5 vertices						
no perpendicular sides						

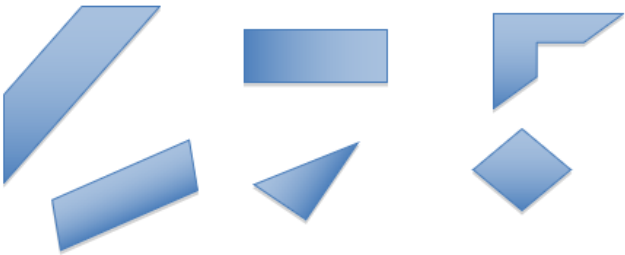
6. Was there a column that was difficult to complete? Why?

Is this a polygon?



Draw any polygon and list five of its properties.

Which of the following shapes are quadrilaterals?



7.