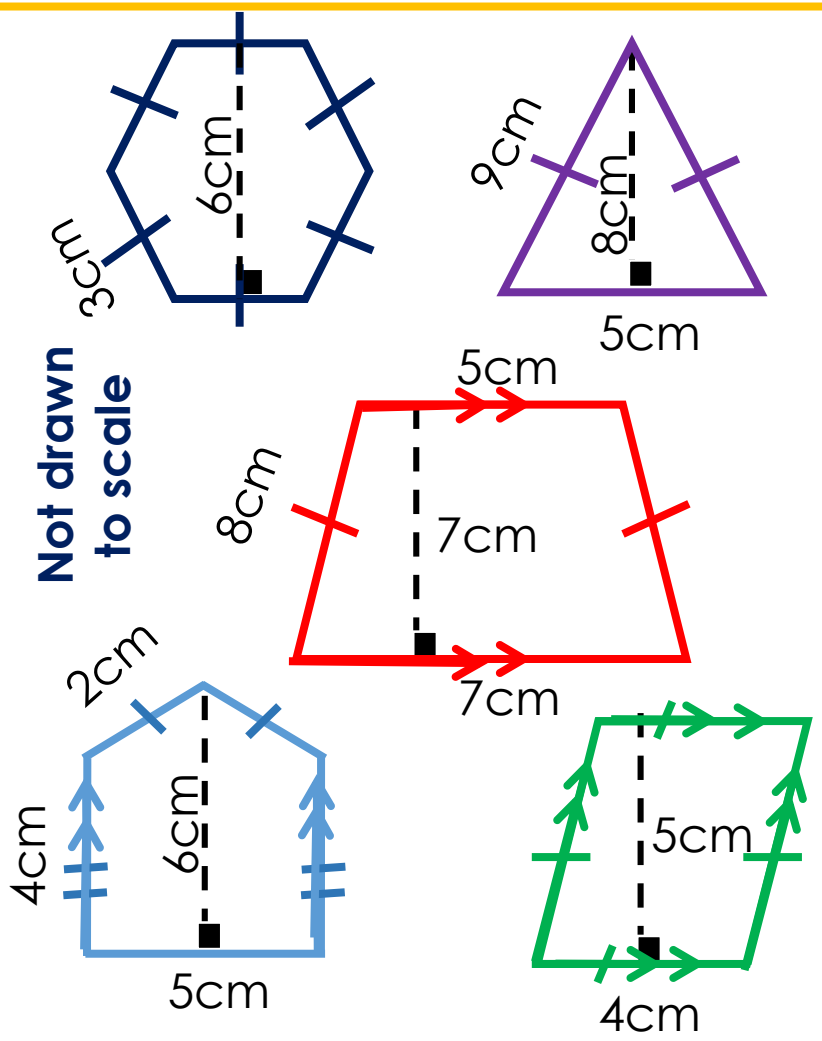
Crossover with Area, Perimeter and Number



1. Without completing any calculations arrange the shapes in ascending order of size for their:
   a) Perimeter
   b) Area
2. Now with calculations repeat question one and comment on any differences that you had previously thought compared to the answer. (You must use correct names for each of the shapes).
3. Which of these shapes has:
   a) A perimeter that is a prime number
   b) An area that is a multiple of 5
   c) A perimeter which is a square number
   d) An area that is a cube number
   e) Both an area and a perimeter that is a factor of 80.

Think about it!
Can you have a negative area or perimeter?

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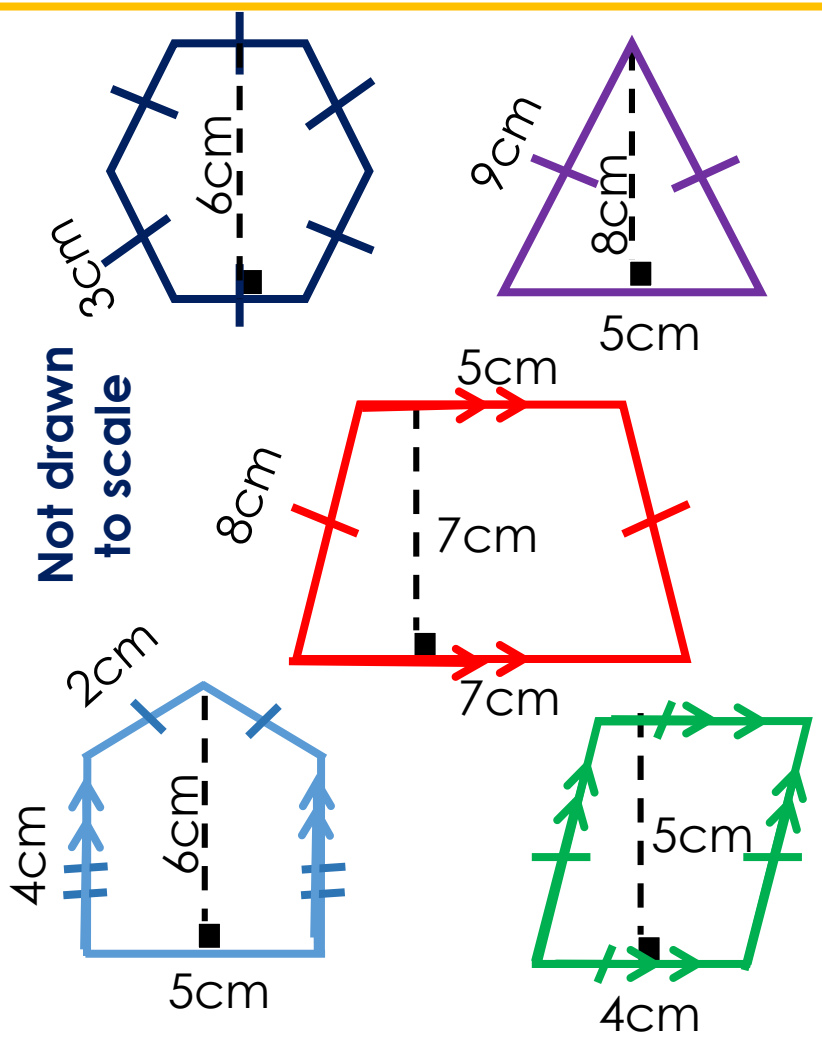

1. *Students own answer*
2. Perimeter: Rhombus 16cm, pentagon 17cm, regular hexagon 18cm, isosceles triangle 23cm, trapezium 28cm
   Area: Isosceles triangle 20cm^2, rhombus 20cm^2, pentagon 25cm^2, regular hexagon 27cm^2, trapezium 42cm^2 .
   The order of perimeter and area are not the same.
3.
   a) Isosceles triangle and pentagon
   b) Isosceles triangle, pentagon and rhombus
   c) Rhombus
   d) Regular hexagon
   e) Rhombus

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