Regular and irregular polygons

Watch the BBC bitesize clip, read the information and complete the quiz, using the link below:

https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/z98n4qt

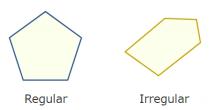
Here is some more information from maths is fun website (always a good website to look at if you require more information! https://www.mathsisfun.com



Types of Polygons

Regular or Irregular

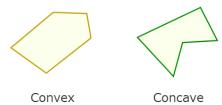
A **regular** polygon has all angles equal and all sides equal, otherwise it is **irregular**



Concave or Convex

A **convex** polygon has no angles pointing inwards. More precisely, no internal angle can be more than 180°.

If any internal angle is greater than 180° then the polygon is **concave**. (*Think: concave has a "cave" in it*)



Simple or Complex

A **simple** polygon has only one boundary, and it doesn't cross over itself. A **complex** polygon intersects itself! Many rules about polygons don't work when it is complex.



Simple Polygon (this one's a Pentagon)



Complex Polygon (also a Pentagon)

More Examples



Irregular Hexagon



Concave Octagon



Complex Polygon (a "star polygon", in this case a <u>pentagram</u>)