

## Year 5/6 shapes



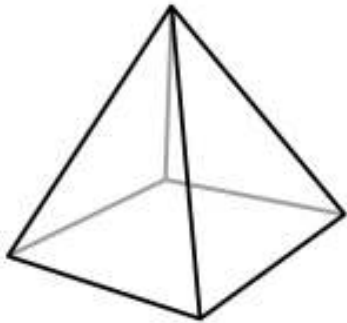
### Fast 5

How long will it take you to complete these?

$$54 \times 24 = 1296$$

$$8714 \div 3 = 2904 \text{ r } 2 \text{ (or } 2/3 \text{ or } 0.666666)$$

17.29 on a 12 hour clock **5:29 p.m**



Faces on a square based pyramid? **5**

$$200 \times 70 = 14\,000$$

First watch the video, then play the game:

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



What is a polygon? A **polygon** is a flat, two-dimensional (2D) shape with straight sides that is fully closed (all the sides are joined up). The sides must be straight. **Polygons** may have any number of sides. A **circle**. A shape with curved sides is not a **polygon**.

Can a polygon have a curved line? **No**

Name a shape which isn't a polygon. e. g. **Circle, semi-circle, oval etc.**

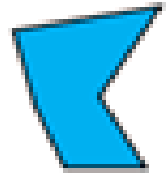
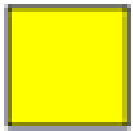
What makes a polygon irregular or regular? **Regular shapes** have sides that are all equal and interior (inside) angles that are all equal. **Irregular shapes** have sides and angles of any length and size.

Is a square regular? **Yes**

Are all hexagons regular? **No**

# Regular

# Irregular



Sort these shapes

## Always, sometimes or never true?

A regular polygon has equal sides but not equal angles.

Never true – equal sides and equal angles.

A triangle is a regular polygon.

Sometimes true – equilateral triangles are, scalene are not.

A rhombus is a regular polygon.

Sometimes true – if the rhombus has right angles and is a square.

The number of angles is the same as the number of sides in any polygon.

Always true.