Look at the shapes on Eddy's shirt. How many straight sides and curved sides are there in each shape?

There is a triangle and a circle.

There are 3 straight sides in the triangle and a curved line in the circle.

Thinking Cap

Compare the shapes on Eddy's <u>ball</u> to the ones on his <u>shirt</u>.
What is the same and what is different?
Find similar shapes around you to help you.

Look at the ball:

• The pentagon and the hexagon are 2D shapes.

A pentagon has 5 straight sides and a hexagon has 6 straight sides.
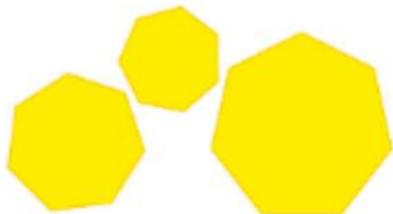
A **heptagon** has 7 sides and
_____7_____ vertices.
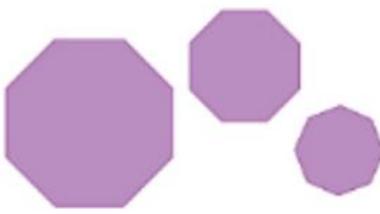
An **octagon** has 8 sides and
_____8_____ vertices.

A **nonagon** has _____9_____
sides and _____9_____ vertices.
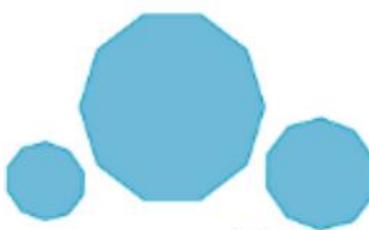
A **decagon** has _____10_____
sides and _____10_____ vertices.

What do you notice about the number of sides and vertices in each polygon?

The number of sides is equal to the number of vertices in each polygon.

In polygons,
*number of **sides** = number of **vertices***

b Izzy wants to sort the shapes into groups.
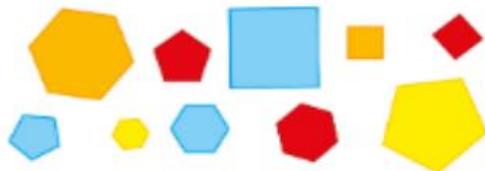
Get shape stickers from page 248 to help you.
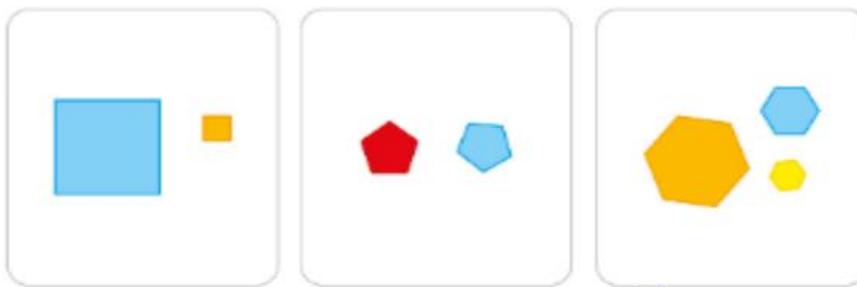
The 2D shapes are sorted by the number of _sides_
and _vertices_

What other ways can you group the shapes into?

colour and size

## Let's Practise

I Write "true" or "false".

Figure A   Figure B   Figure C

a Figure A is a polygon with 6 equal sides. __false__

b Figure B is the odd one out. __true__

c Figure C is a hexagon. __true__

2 Ali sorts the polygons below into groups.
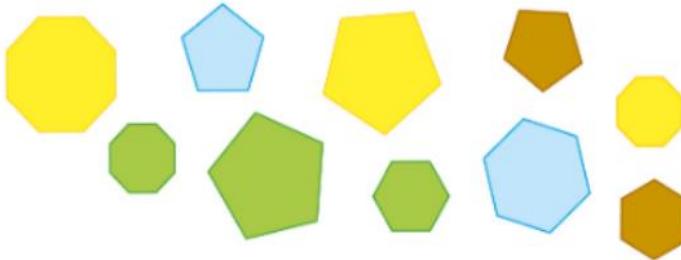
Get stickers from page 249 to help you.

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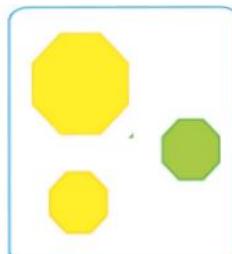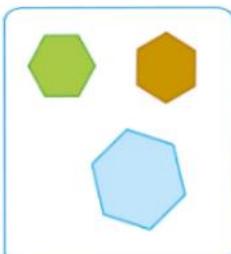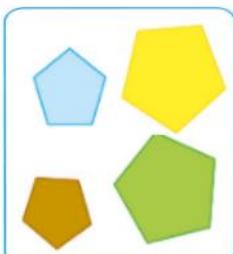
How are the polygons sorted? __shapes__

3 Wei Ming makes a pattern.
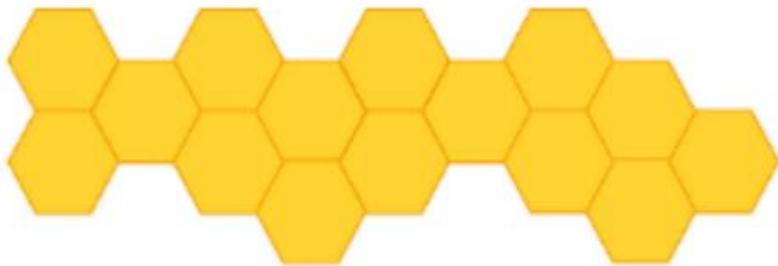
Draw four more hexagons to continue the pattern.

Why do you think these shapes fit nicely without any gaps?