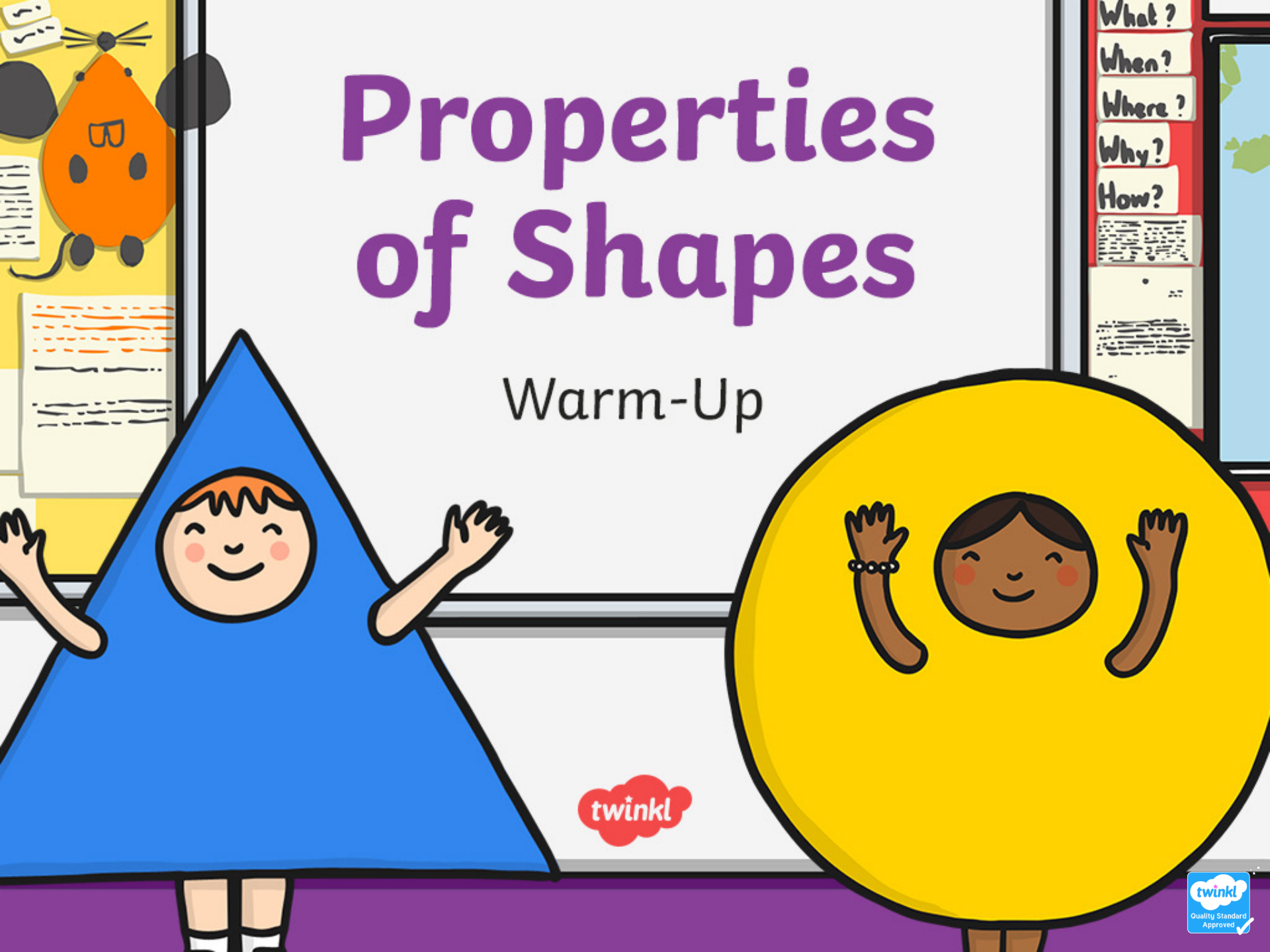
Properties of Shapes

Warm-Up



Draw the 2D shape

I have four sides.
I have four corners.
My sides are all equal lengths.

What am I?

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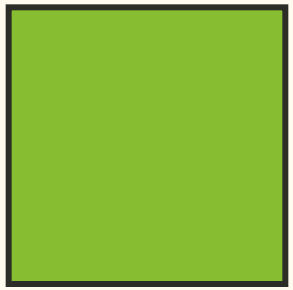
I have four corners.
My sides are all equal lengths.

What am I?



square

Draw the 2D shape

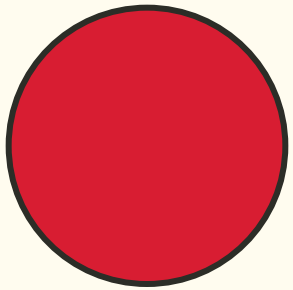
I have one side.
My side is curved.

What am I?

Draw the 2D shape

I have one side.
My side is curved.

What am I?



circle

Is this a square?

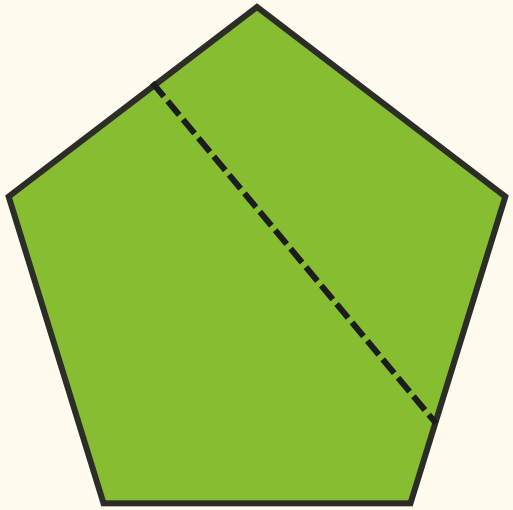
Explain your reasoning.

Is this a square?

Explain your reasoning.

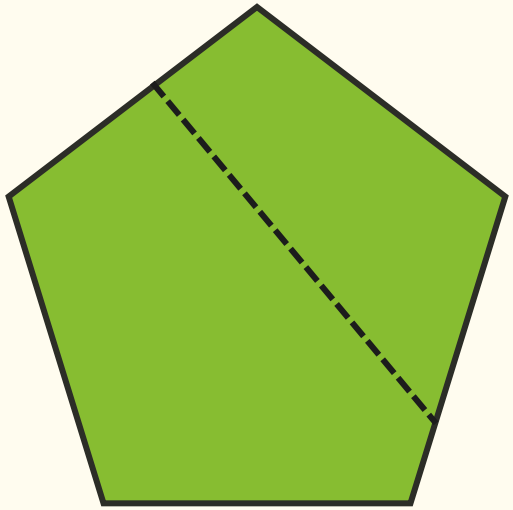
No, because it doesn't have four equal sides.

Is this a line of symmetry?



How do you know?

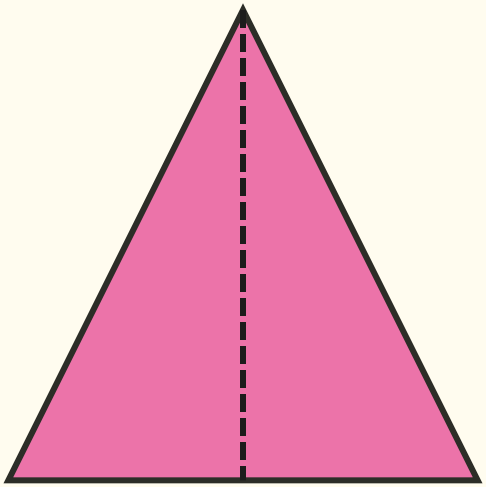
Is this a line of symmetry?



How do you know?

No, because the shape is not the same on both sides of the line.

Is this a line of symmetry?



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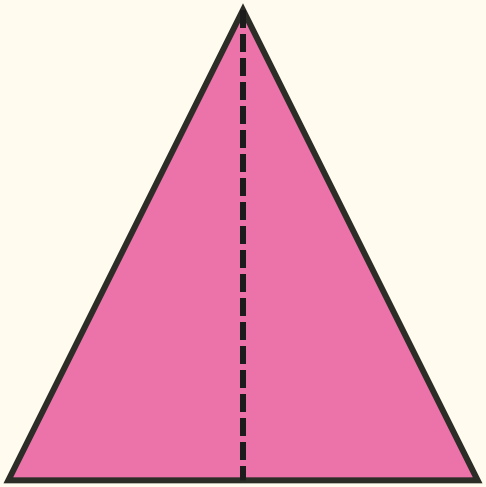
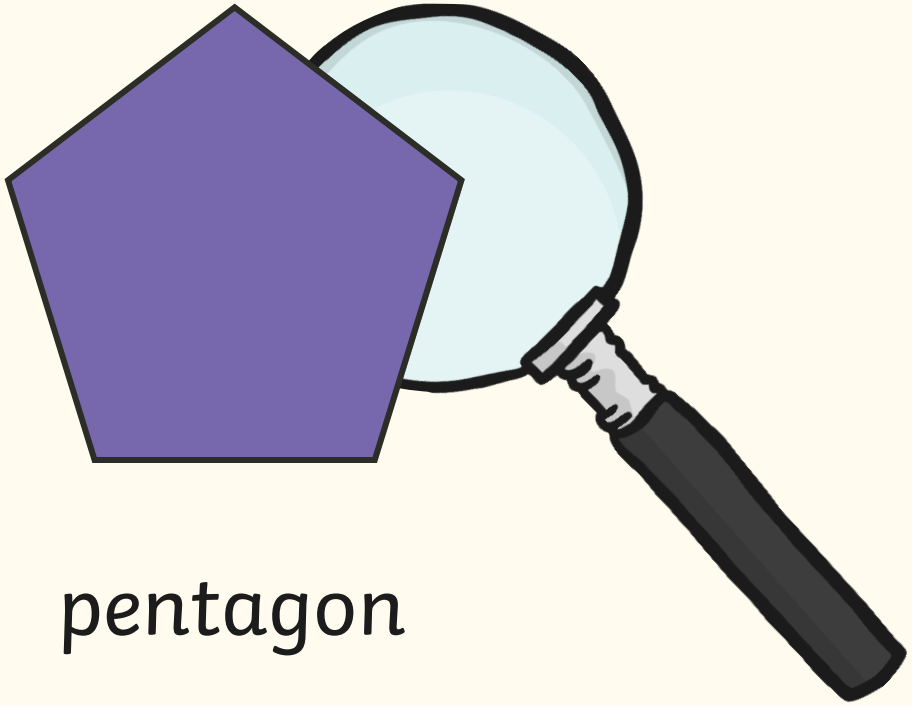


How do you know?

Yes, because the shape is the same on both sides of the line.

Which 2D shape is hiding?

Which 2D shape is hiding?



pentagon

Which 2D shape is hiding?

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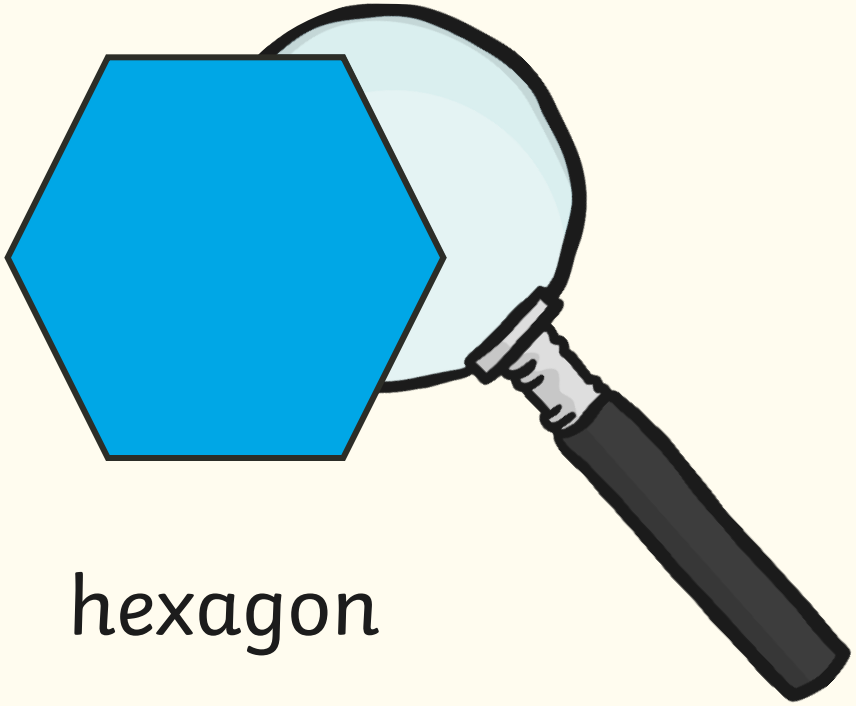

hexagon

Which 2D shape is hiding?

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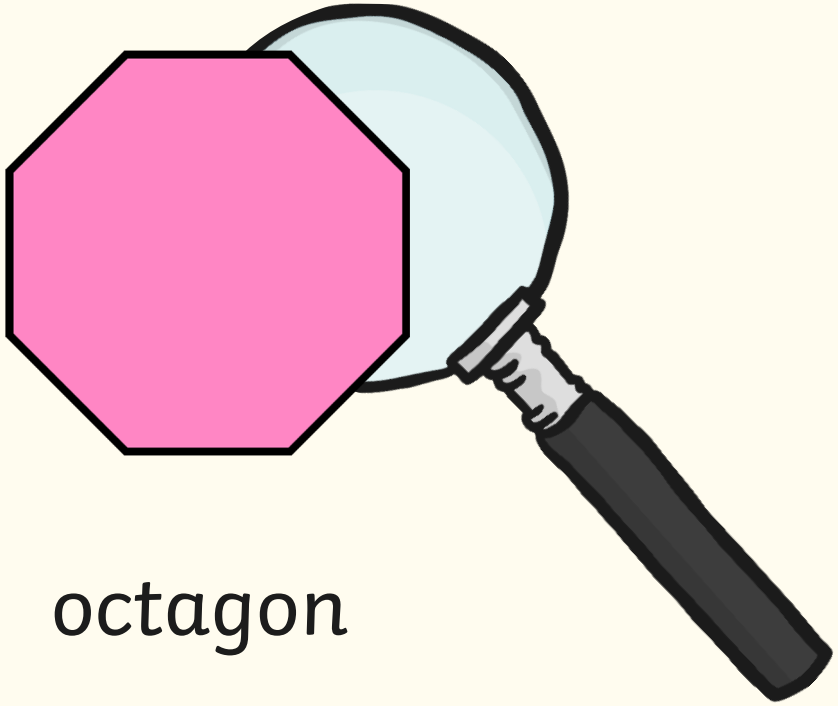
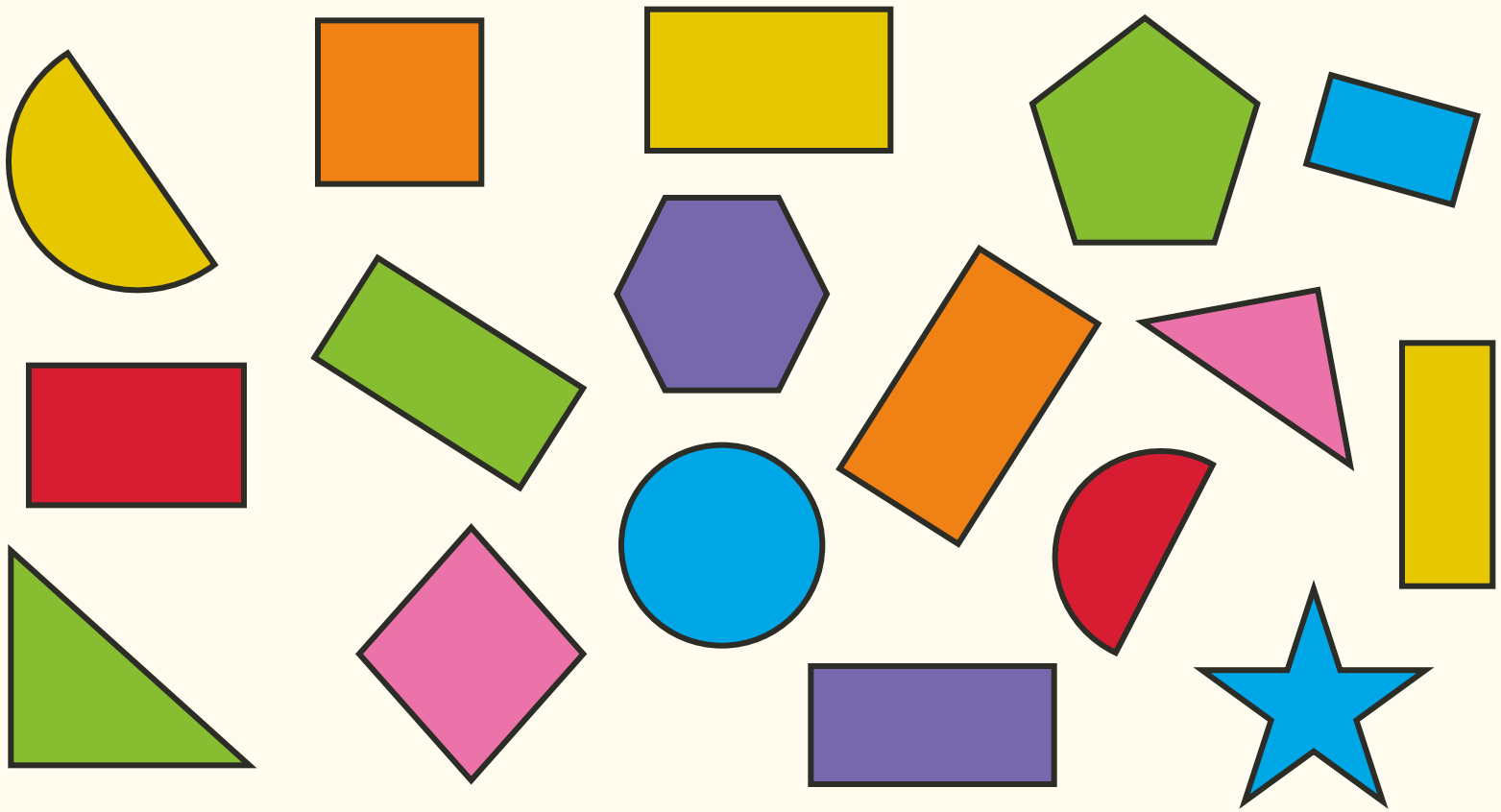
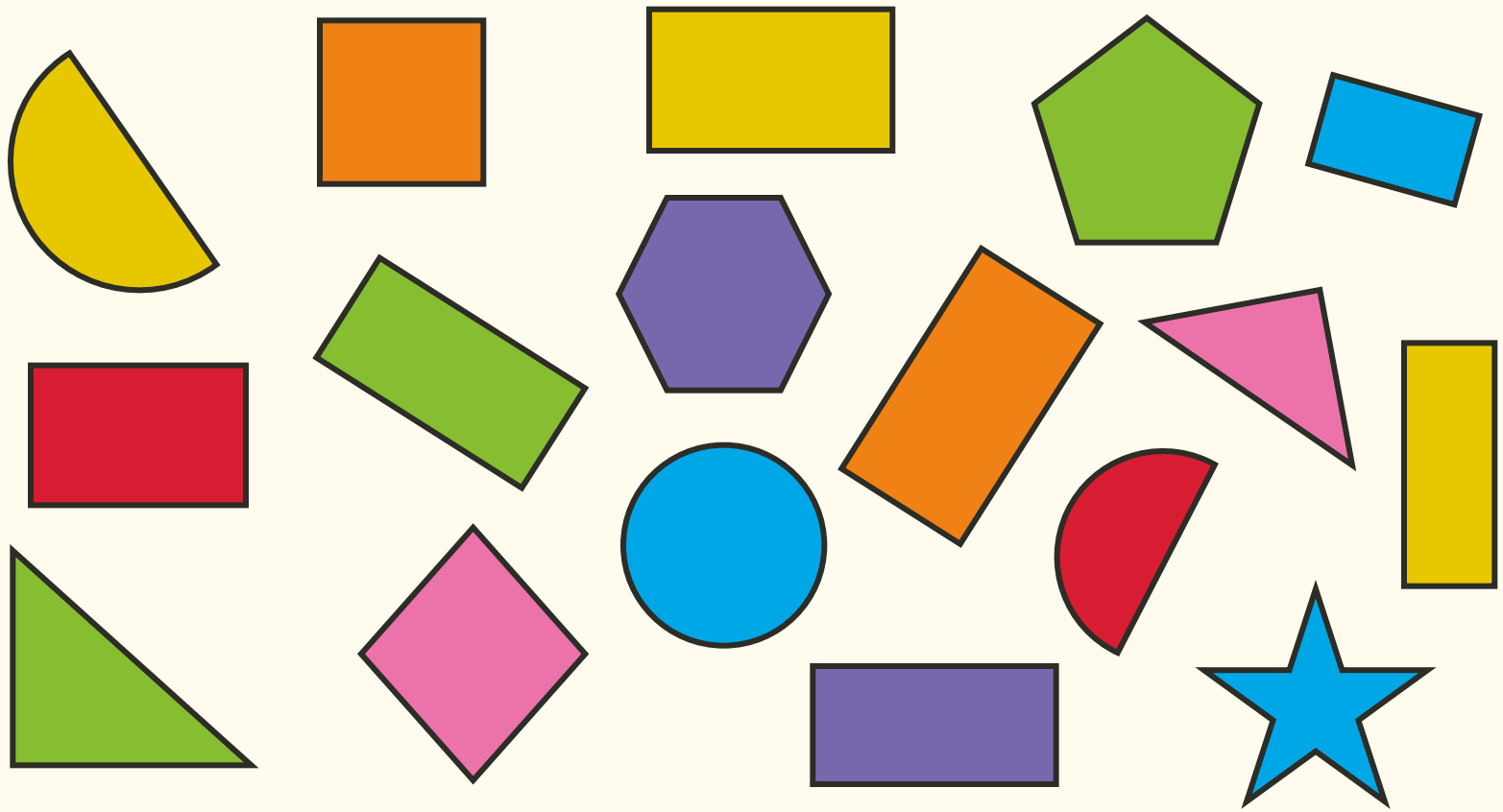


octagon

How many rectangles can you see?

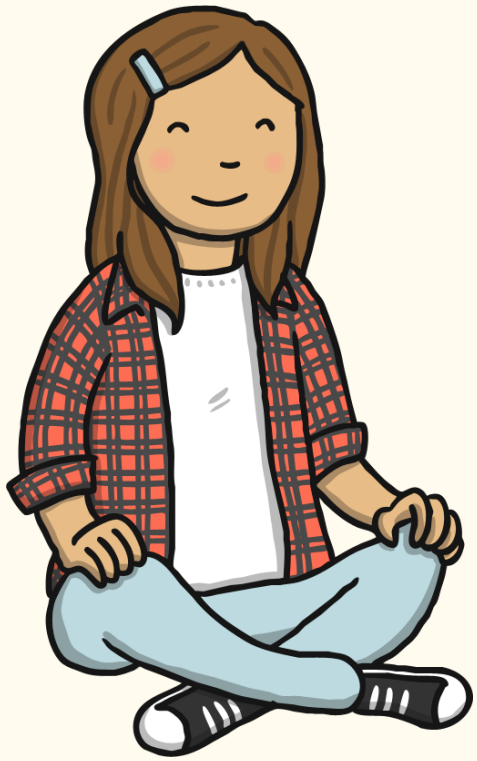


How many rectangles can you see?



There are 8 rectangles. A square is also a rectangle because it has four right angles and the opposite sides are of an equal length.

I’m thinking of a 3D shape. My shape has 6 faces. Each of the faces is a square. What is my shape?



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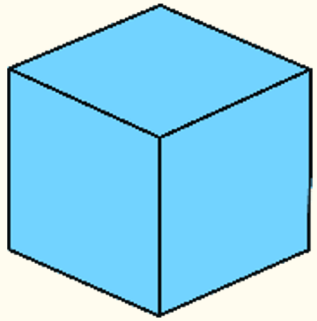
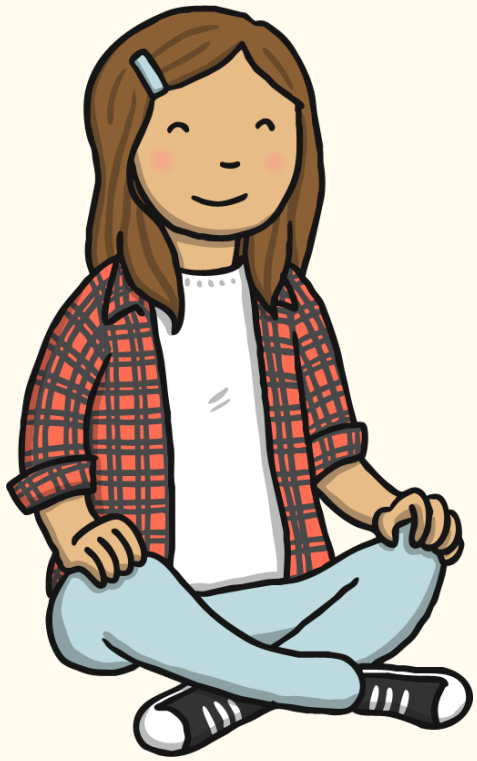
cube





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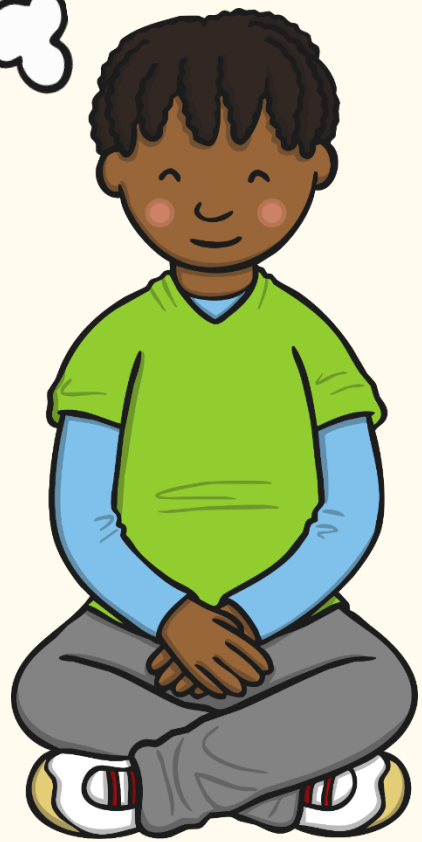

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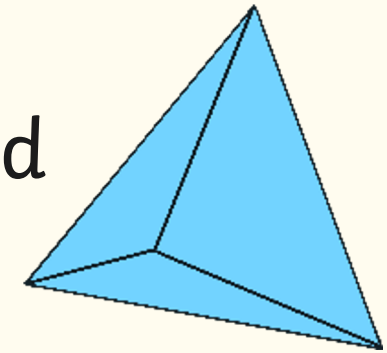
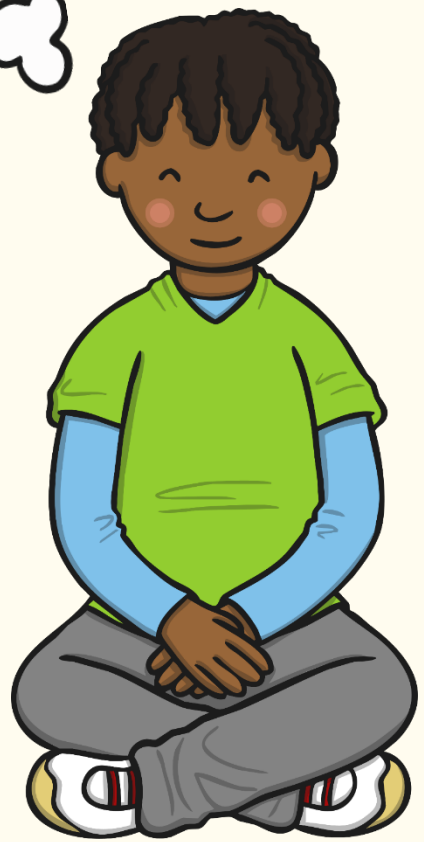
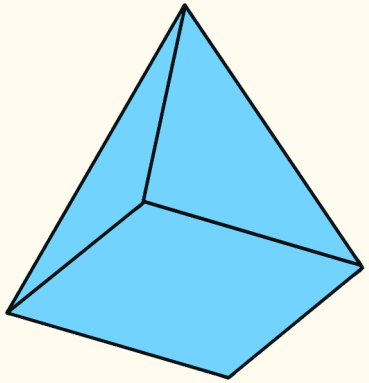
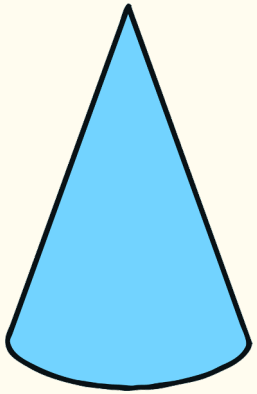
triangular-based pyramid

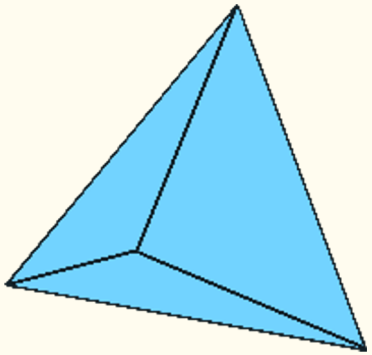


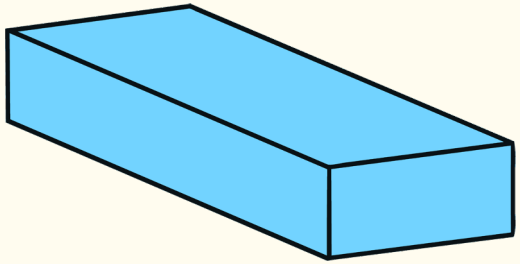


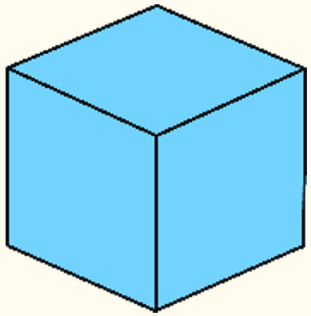
Which 3D shape has five faces?











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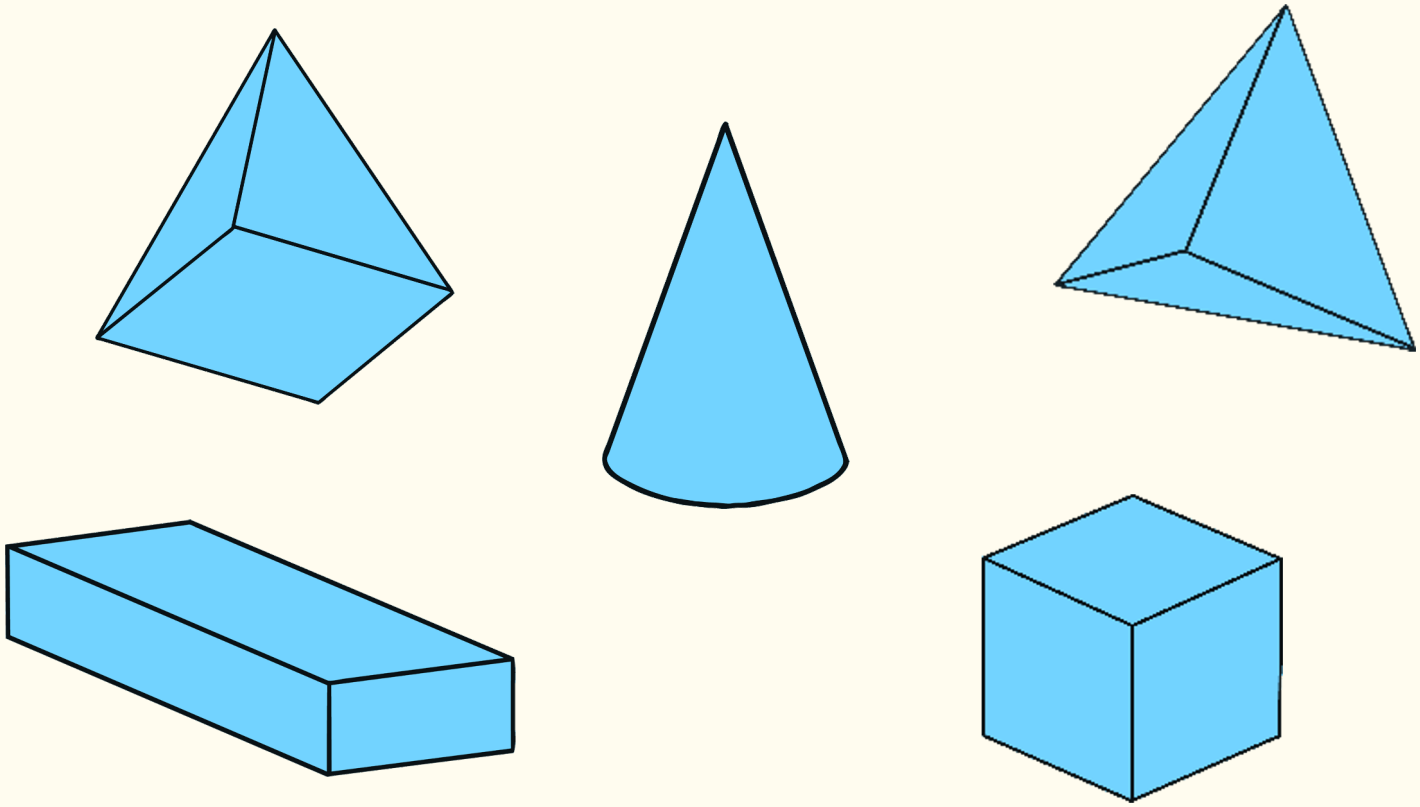
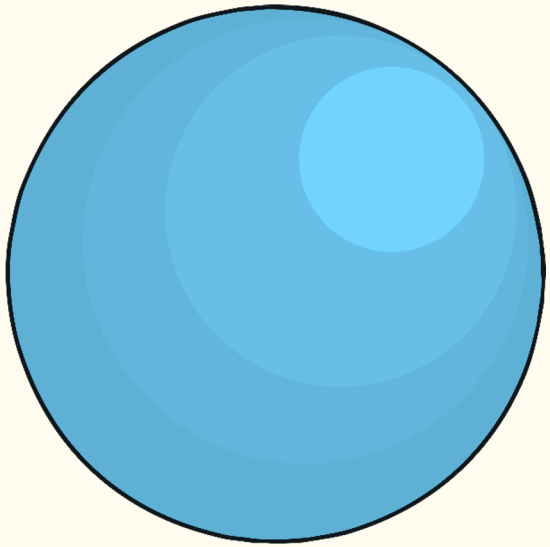


the square-based pyramid

True or false?

A sphere has no vertices.



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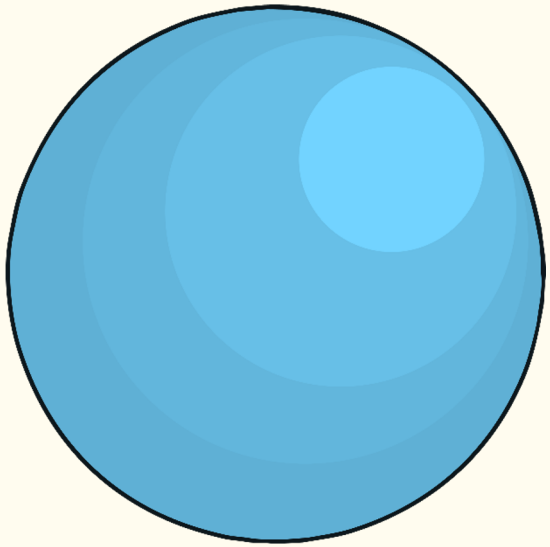
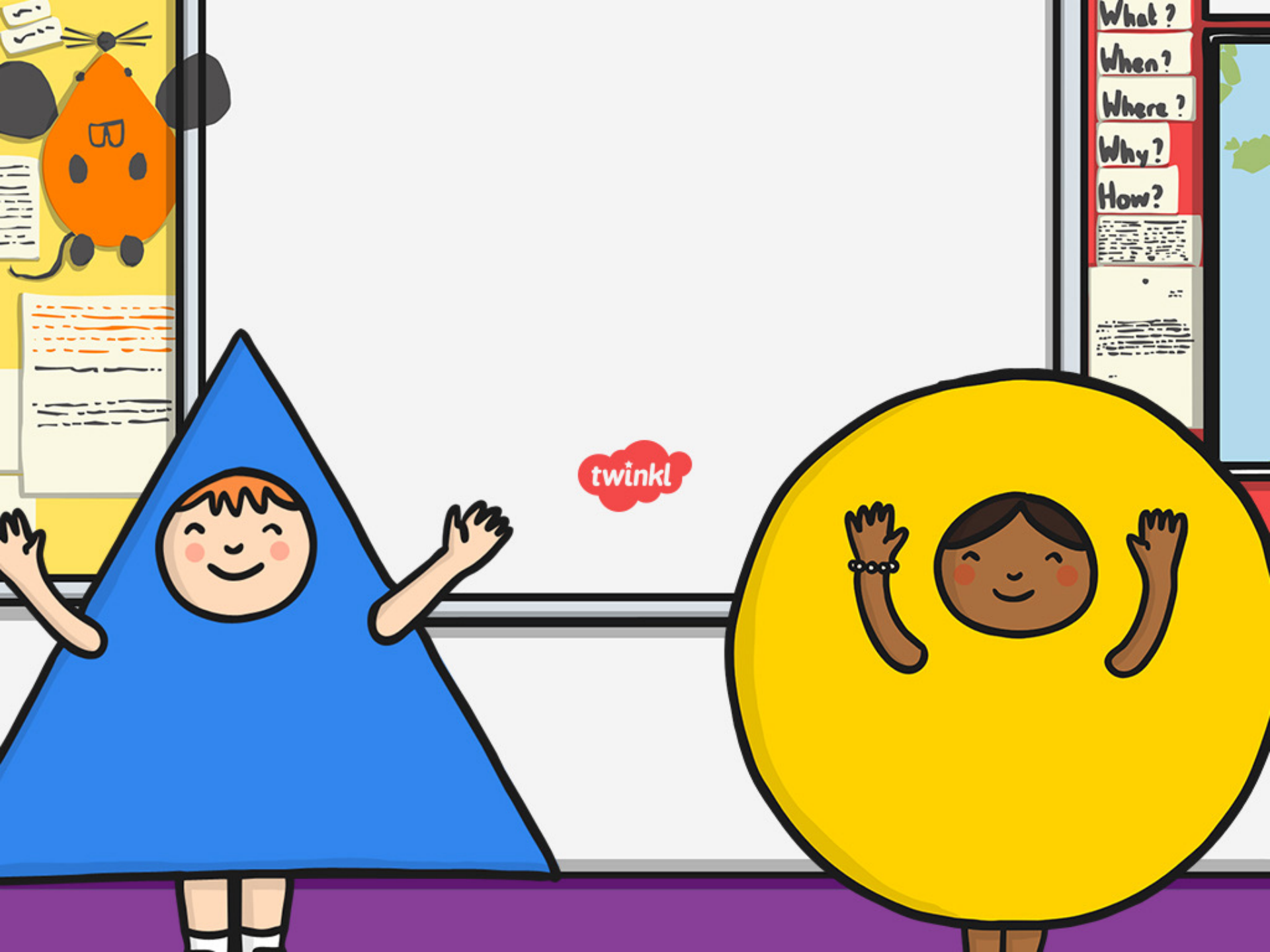


True. A vertex is the point where two or more straight lines meet. A sphere has no straight lines and no vertices.


What?
When?
Where?
Why?
How?
twinkl