

Make Patterns With 2D Shapes

Adult Guidance with Question Prompts



Children look carefully at each pattern. They circle the part that repeats (the 'core' of the pattern). Saying the pattern out loud can help children to identify the part that repeats. Children draw the missing shapes in repeating patterns.

Explain the pattern.

Can you say the pattern?

Which part repeats?

How many shapes are in each repeating part?

How does that help you know what the missing shape is?

How can we use the pattern to work out what the first shape will be?

What would the next shape in each pattern be?

How are these patterns the same/different?

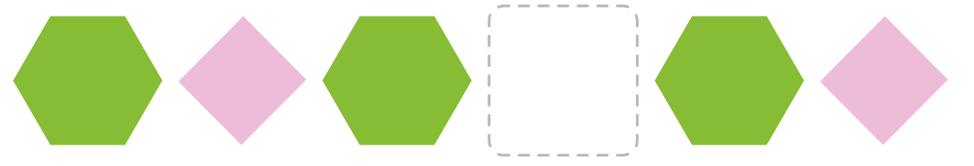
What would the 10th shape in each pattern be?

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Put a ring around the part of the pattern that repeats.

Draw the missing shape.



hexagon, square, hexagon, square,
-----, square



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Children investigate a circular pattern and look for mistakes in it. Saying the pattern out loud can help children to identify the part that repeats. Children could use 2D shape pictures or flat plastic shapes to make their own circular patterns. These could be photographed. If using flat plastic shapes, emphasise that these are representations of 2D shapes, whereas 2D shapes are pictures that cannot be held.

What is the core of Fran's pattern?

Can you say the pattern going around the circle?

Can you spot any mistakes Fran has made?

What is her mistake?

How could she fix it?

Can you make a circular pattern using 2D shapes?

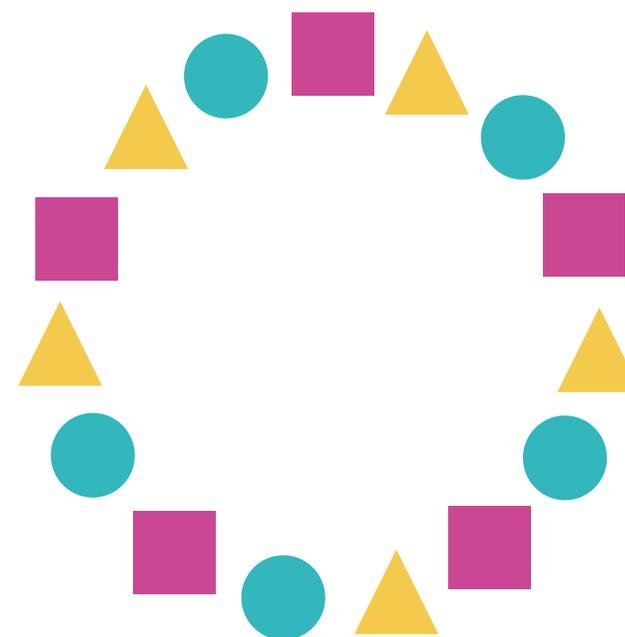
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Fran has made a pattern of shapes going round in a circle.

Has she done it correctly?

Explain your answer.



Make your own pattern of 2D shapes going round in a circle.

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Children investigate a more complex 2D shape pattern. They identify the missing shape in the pattern and predict what other shapes will come later in the pattern.

Explain the pattern.

What shapes can you see?

What is the core of the pattern?

What is the missing shape?

What is the outside shape? What is the inside shape?

Can you draw it?

What would the next shape in the pattern be?

What would the 9th shape be?

How do you know?

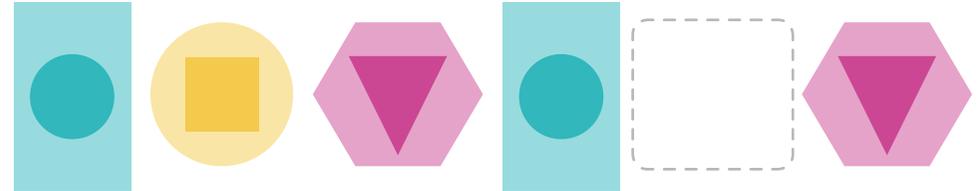
Is this shape the 12th shape?

Prove it.

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What is the missing shape in this pattern?



What would the next shape be?

What would the 9th shape be?

This is the 12th shape.

True or false?

