

Shape

Master The Curriculum

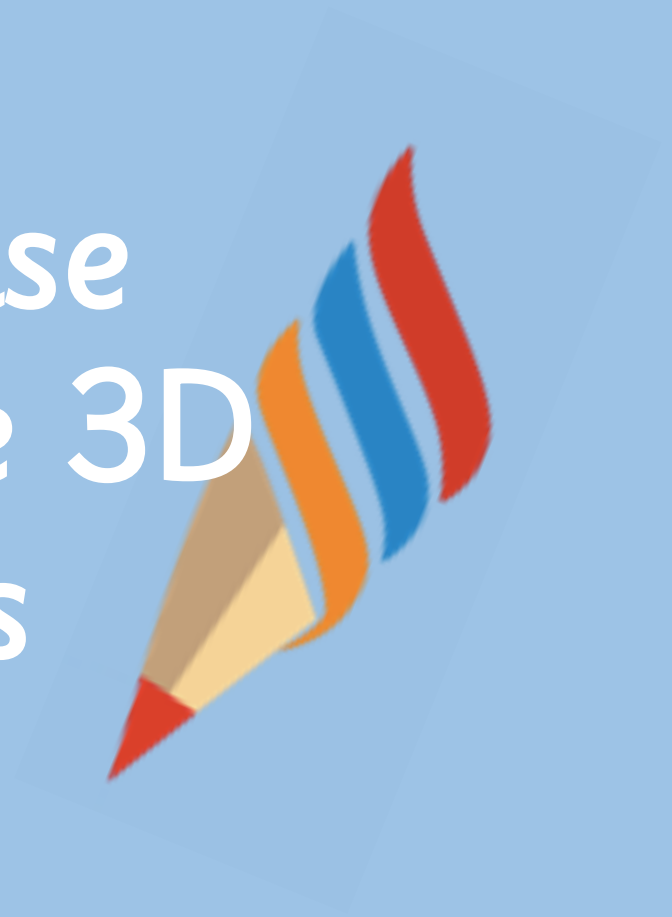


1

Fluency Teaching Slides

Recognise and name 3D shapes

1



Fluency Teaching Slides

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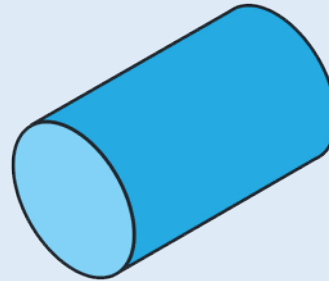
Activity 1

Recognise and name 3D shapes

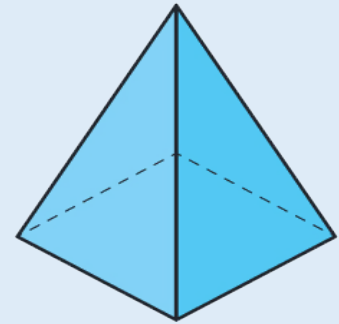
3D Shapes



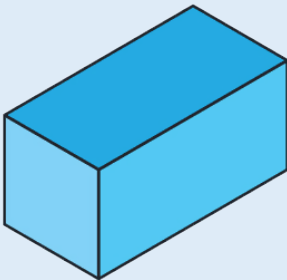
Cone



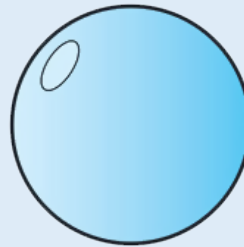
Cylinder



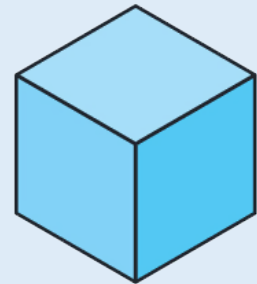
Pyramid



Cuboid



Sphere



Cube

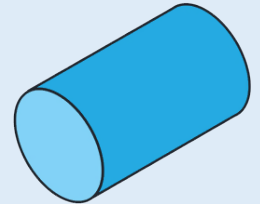
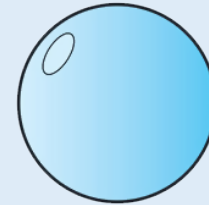
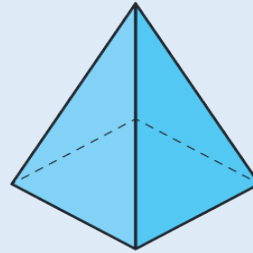
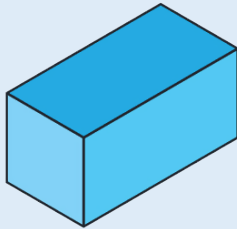
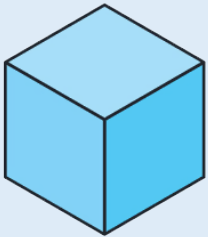


Can you see any of these 3D shapes around the classroom?

Activity 2

Recognise and name 3D shapes

Match the shape to its name.



Cone

Cylinder

Cuboid

Sphere

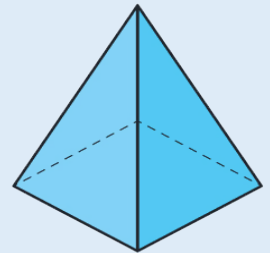
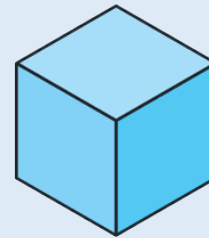
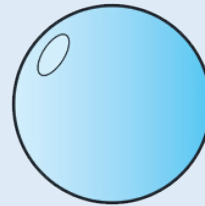
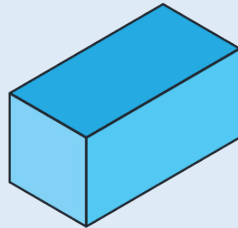
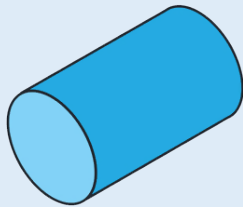
Cube

Pyramid

Activity 2

Recognise and name 3D shapes

Match the shape to its name.



Cone

Cylinder

Cuboid

Sphere

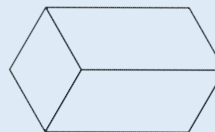
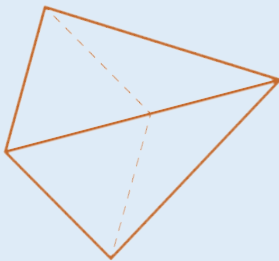
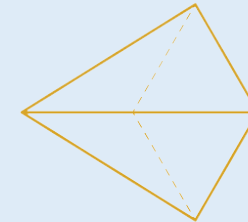
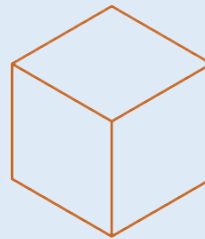
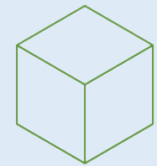
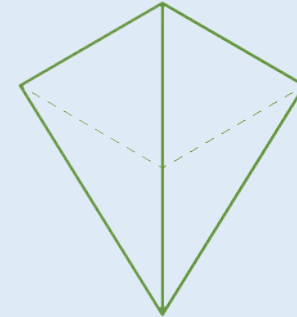
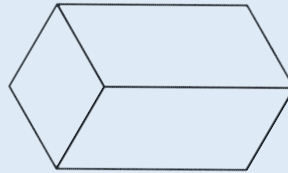
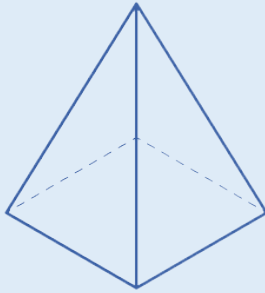
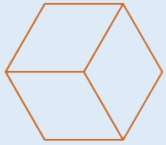
Cube

Pyramid

Activity 3

Recognise and name 3D shapes

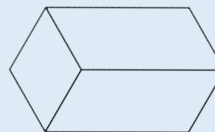
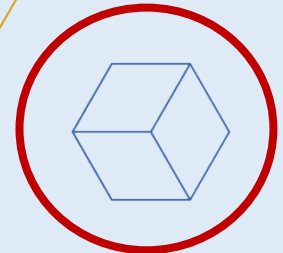
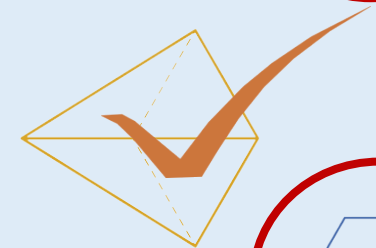
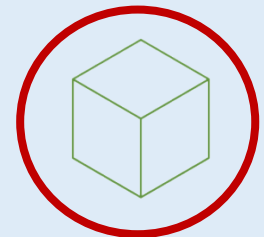
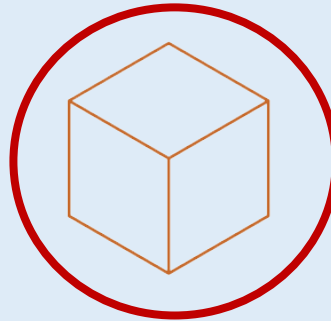
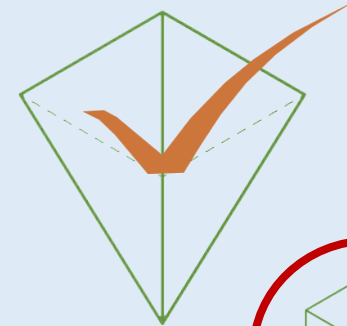
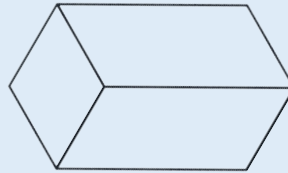
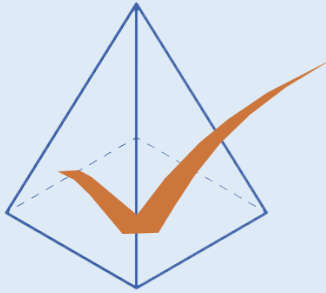
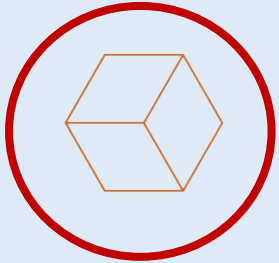
Circle the cubes. Tick the pyramids.



Activity 3

Recognise and name 3D shapes

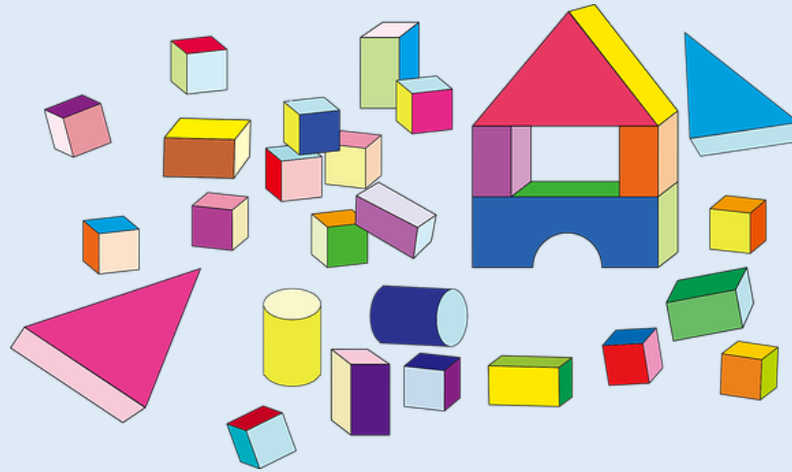
Circle the cubes. Tick the pyramids.



Activity 4

Recognise and name 3D shapes

Zach empties out the building blocks.



How many cubes can you see?

How many cuboids?

How many cylinders

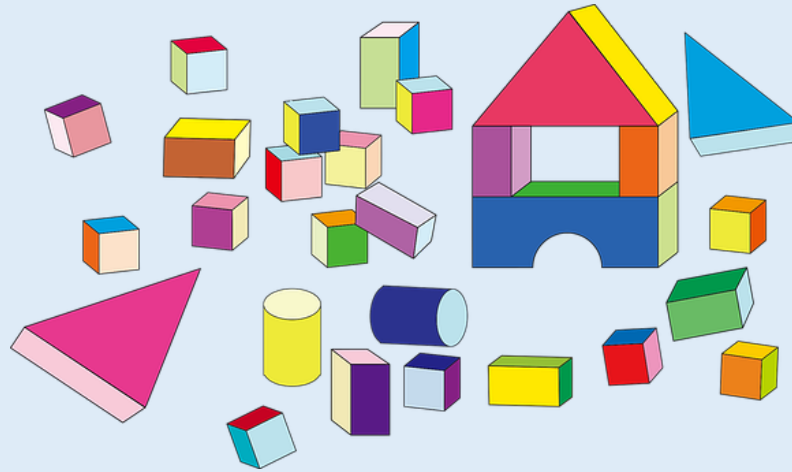
How many pyramids?

How many spheres?

Activity 4

Recognise and name 3D shapes

Zach empties out the building blocks.



How many cubes can you see?

14

How many cuboids?

8

How many cylinders

2

How many pyramids?

3

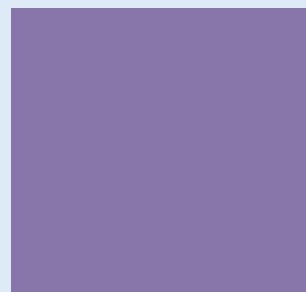
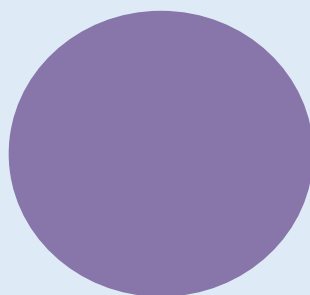
How many spheres?

0

Reasoning 1

Recognise and name 3D shapes

The shapes below are shadows of a 3D shape.

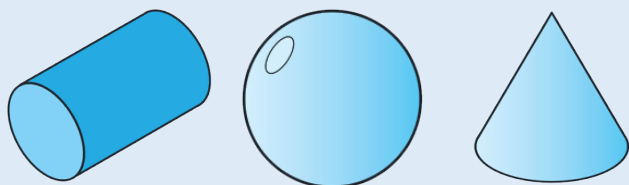
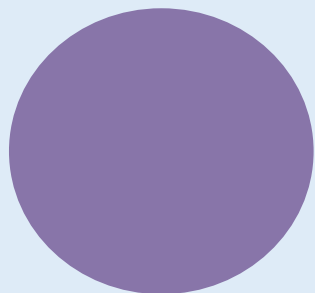


What could the 3D shape be?

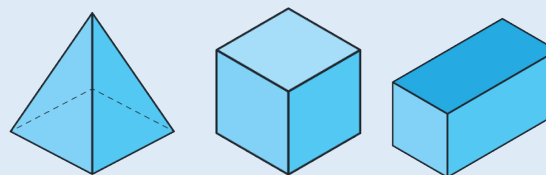
Reasoning 1

Recognise and name 3D shapes

The shapes below are shadows of a 3D shape.



The circle could be a shadow of a cylinder, sphere or cone.



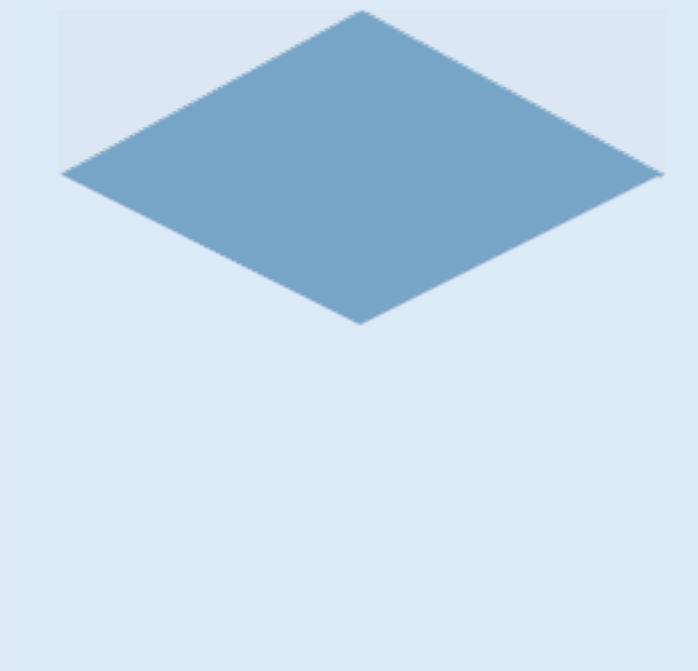
The square could be a shadow of a square based pyramid, a cube or a cuboid.

What could the 3D shape be?

Reasoning 2

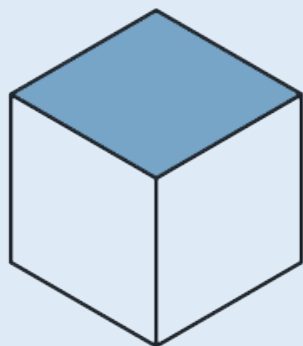
Recognise and name 3D shapes

The bottom of a 3D shape is hidden.

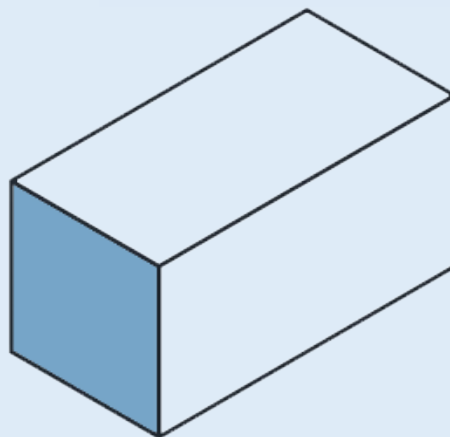


What shape could it be?
Explain how you know.

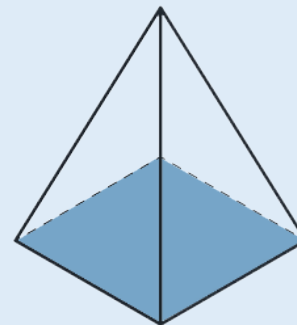
The bottom of a 3D shape is hidden.



Cube



Cuboid



Pyramid

What shape could it be?
Explain how you know.

Discuss

Recognise and name 3D shapes

What makes a shape 3D?

Can we see any 3D shapes in the classroom?

Can you name this 3D shape?

Which shape is a ____?

Do cubes all look the same?

Is a pyramid only a pyramid when the point is at the top?

Does the shape change when we turn it around?

Sort 3D Shapes

1



Fluency Teaching Slides

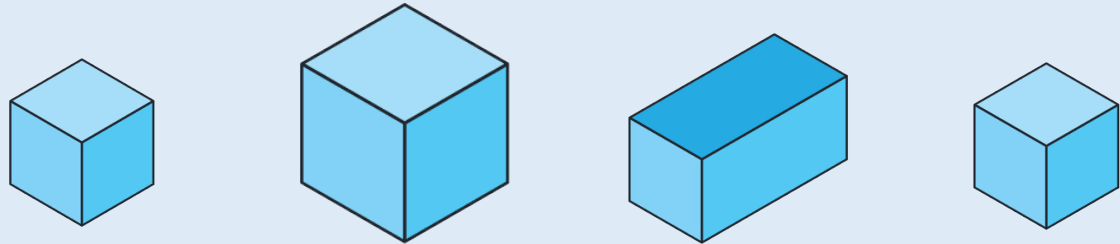
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Activity 1

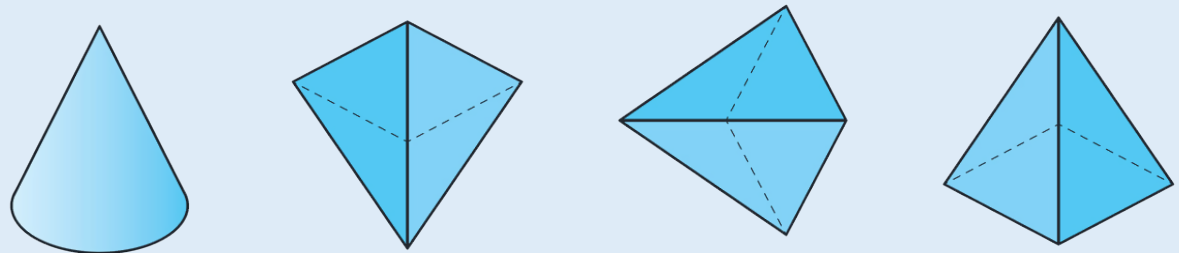
Sort 3D Shapes

Which is the odd one out in each group?

Group 1



Group 2



?

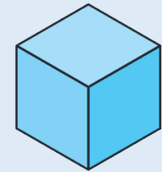
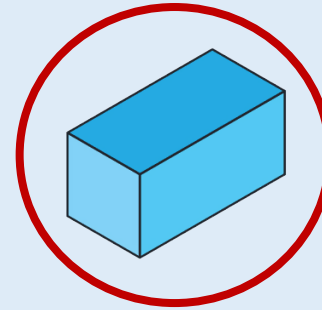
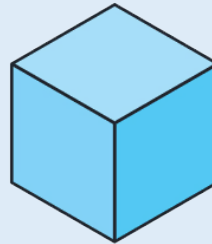
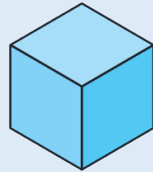
What is the same and what is different?

Activity 1

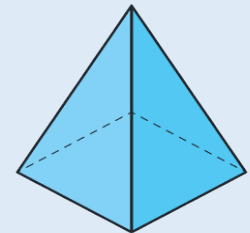
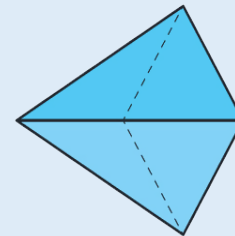
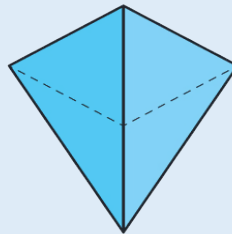
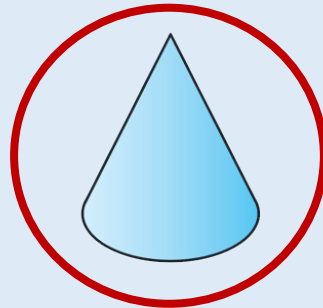
Sort 3D Shapes

Which is the odd one out in each group?

Group 1



Group 2



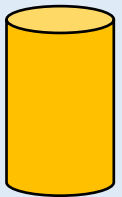
Activity 2

Sort 3D Shapes

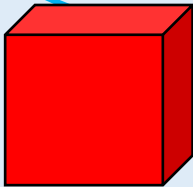
Place the shapes in the correct groups.

Cylinders

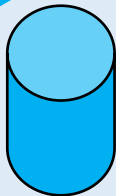
Cuboids



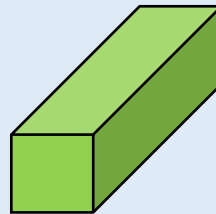
A



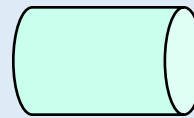
B



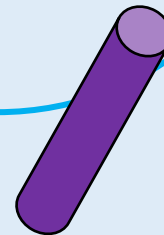
C



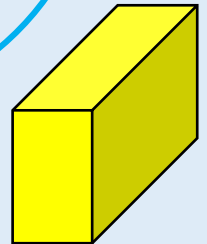
D



E



F



G

?

How else could these shapes be sorted?

Activity 2

Sort 3D Shapes

Place the shapes in the correct groups.

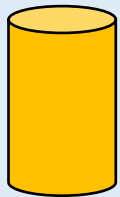
Cylinders

A

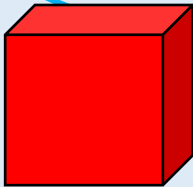
E

C

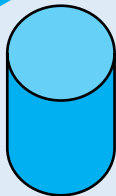
F



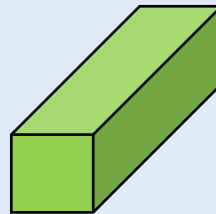
A



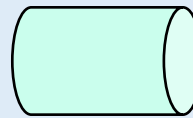
B



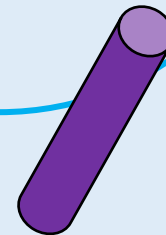
C



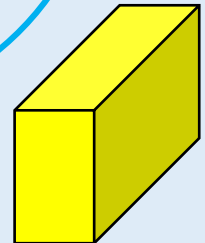
D



E



F



G

Cuboids

B

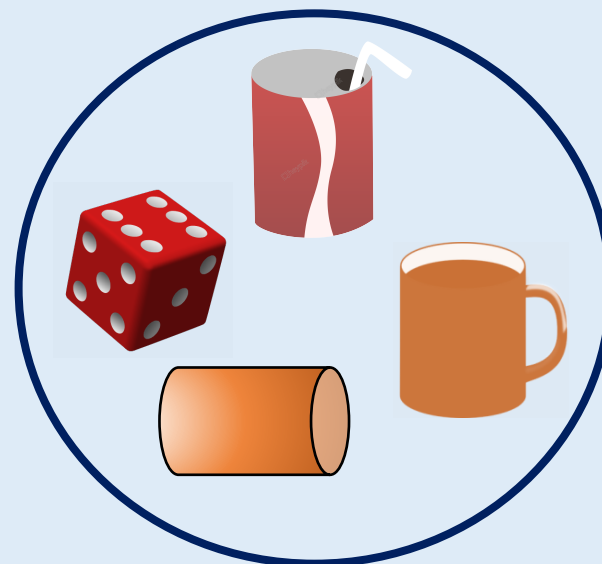
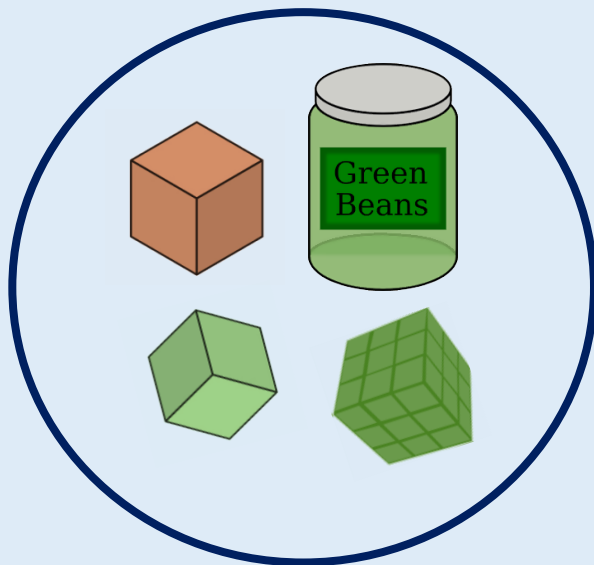
G

D

?

How else could these shapes be sorted?

Some 3D shapes have been sorted.

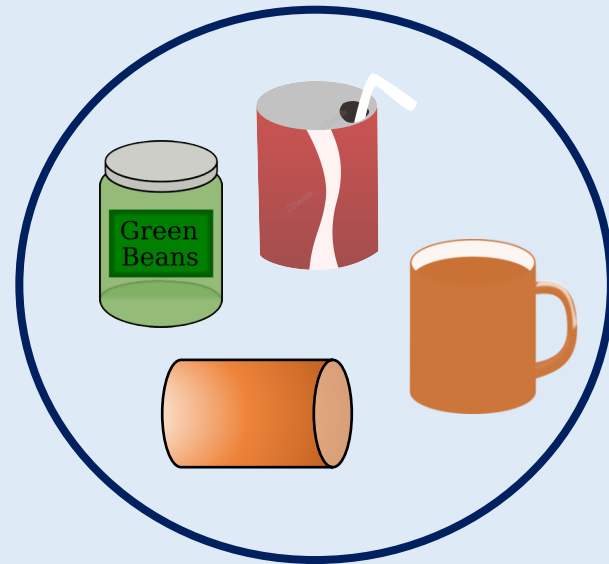
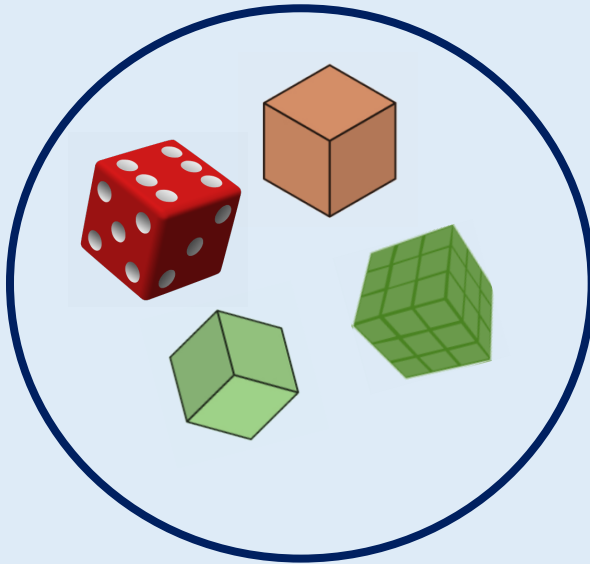


Have the shapes been sorted correctly?
Explain how you know.
How else could the shapes be sorted?

Reasoning 1

Sort 3D Shapes

Some 3D shapes have been sorted.



The shapes could be sorted into cylinders and cubes.

Have the shapes been sorted correctly? **No**

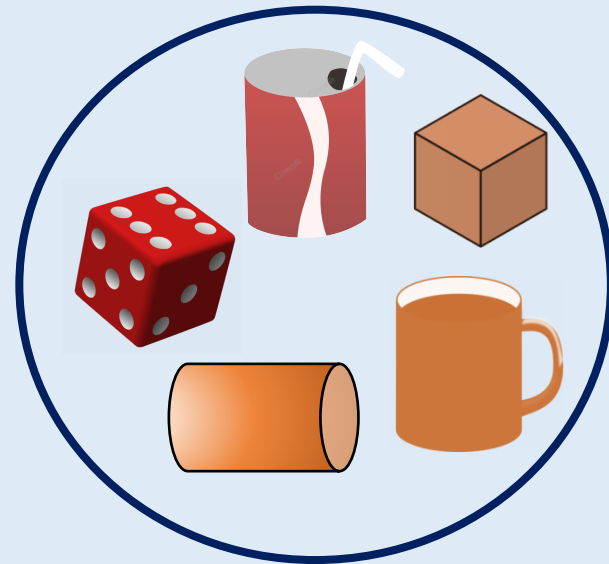
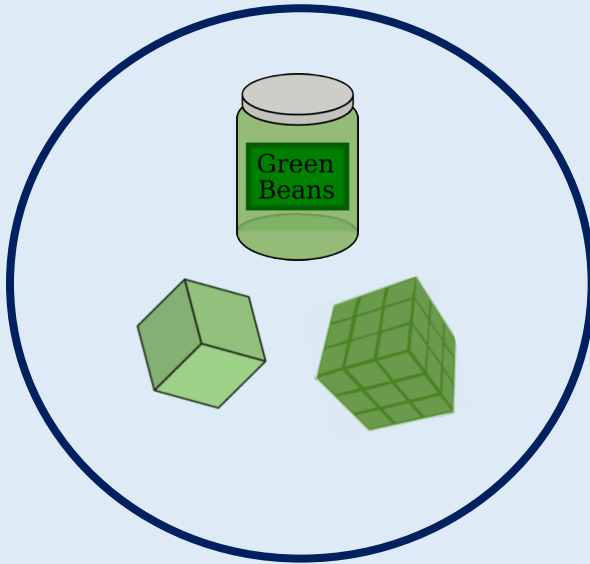
Explain how you know.

How else could the shapes be sorted?

Reasoning 1

Sort 3D Shapes

Some 3D shapes have been sorted.



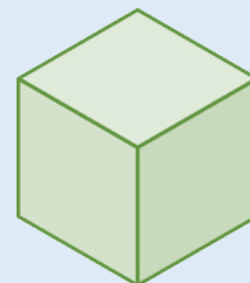
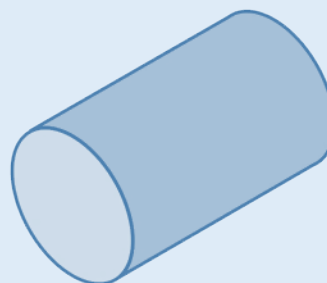
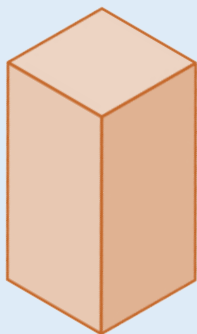
The shapes could be sorted into colour.

Have the shapes been sorted correctly? **No**

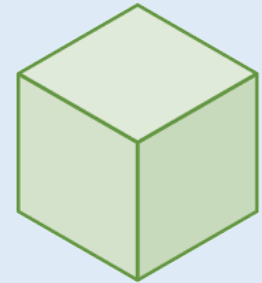
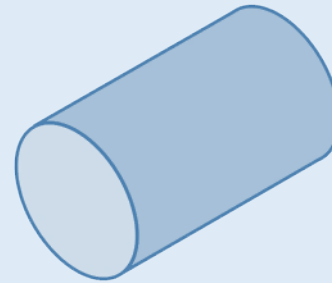
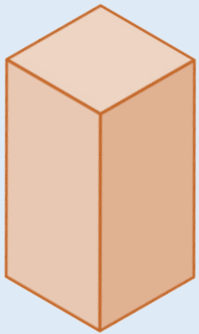
Explain how you know.

How else could the shapes be sorted?

How many ways can you sort the shapes into groups?



How many ways can you sort the shapes into groups?



Possible answers:
Straight faces and curved surfaces.

Shapes with a circular face and shapes with a square face.

Big shapes and small shapes.

Do all shapes with the same name look the same as each other?

Can you name these 3D shapes?

What is the same and what is different?

How could you sort the shapes?

How have these shapes been sorted?

Are there any other ways the shapes could be sorted?

Recognise and name 2D shapes

1



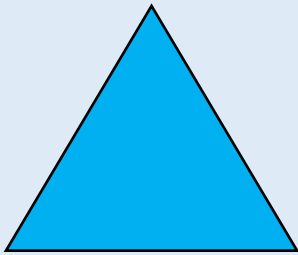
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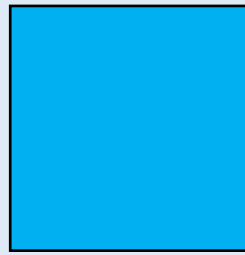
Activity 1

Recognise and name 2D shapes

2D Shapes



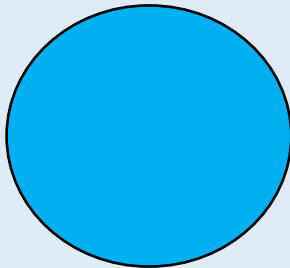
Triangle



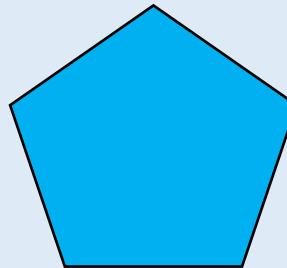
Square



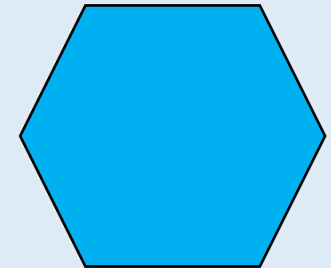
Rectangle



Circle



Pentagon

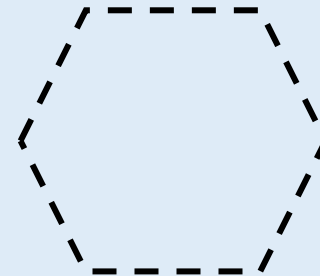
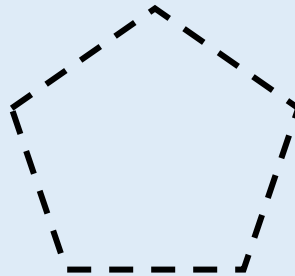
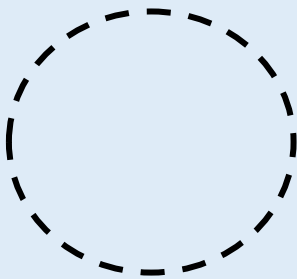
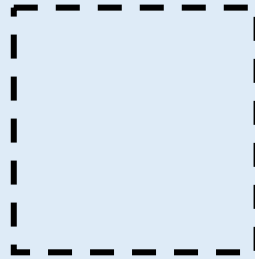
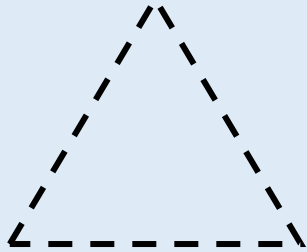


Hexagon

Activity 1

Recognise and name 2D shapes

Trace around the shapes and write their names beneath them.



Circle

Triangle

Hexagon

Square

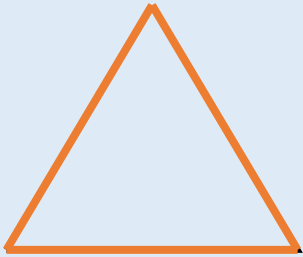
Pentagon

Rectangle

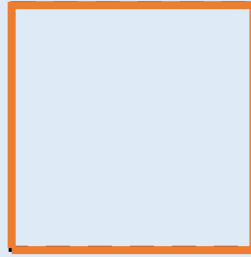
Activity 1

Recognise and name 2D shapes

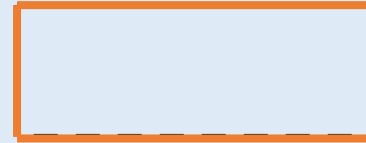
Trace around the shapes and write their names beneath them.



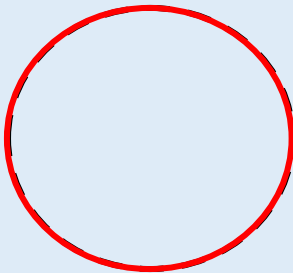
Triangle



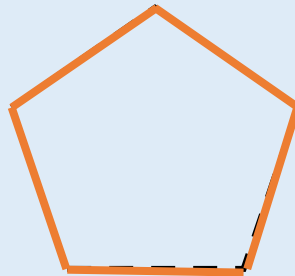
Square



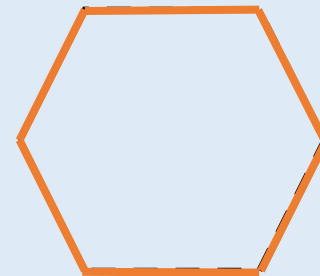
Rectangle



Circle



Pentagon

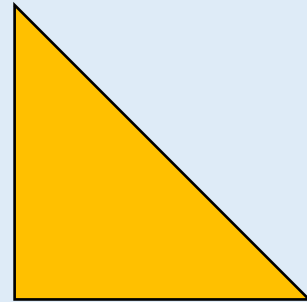
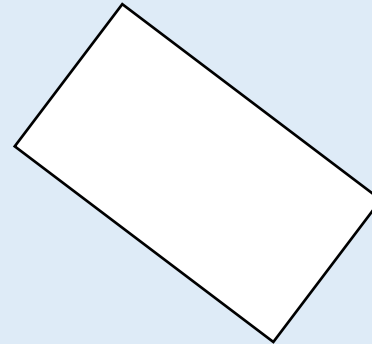
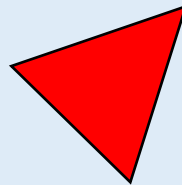
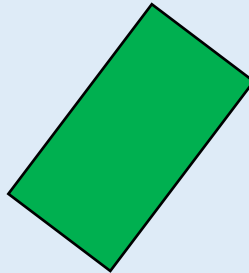
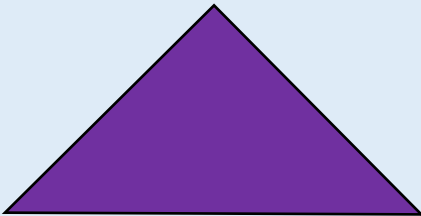
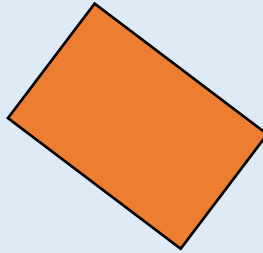
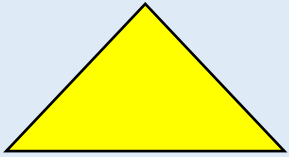


Hexagon

Activity 2

Recognise and name 2D shapes

Circle the triangles. Tick the rectangles.



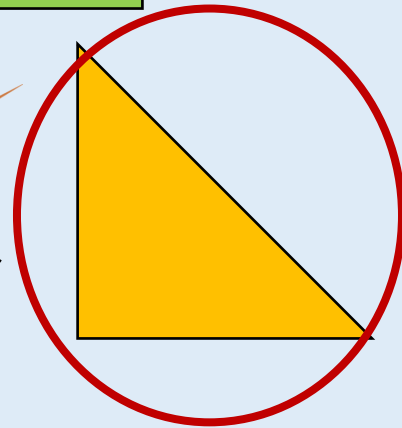
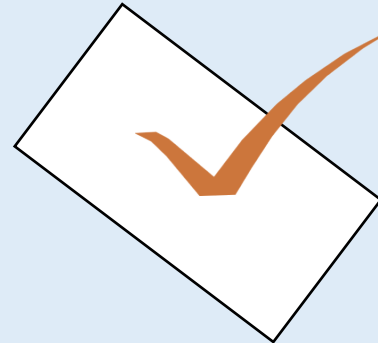
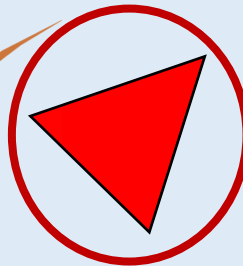
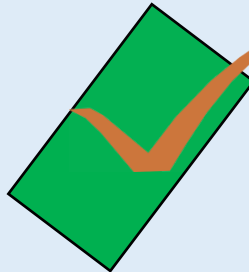
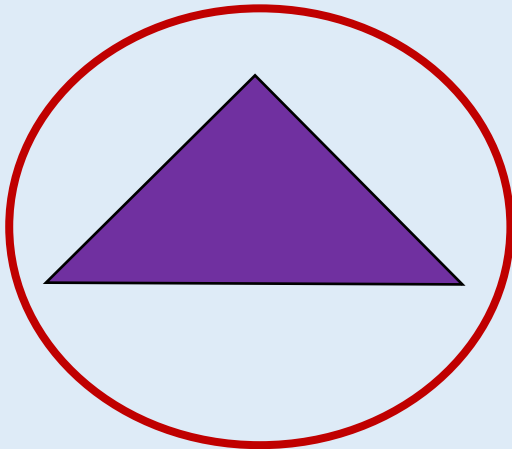
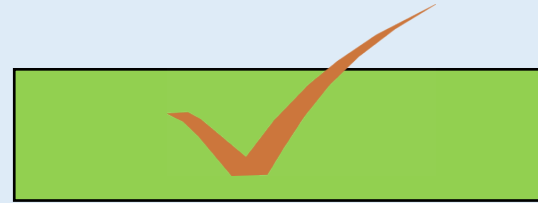
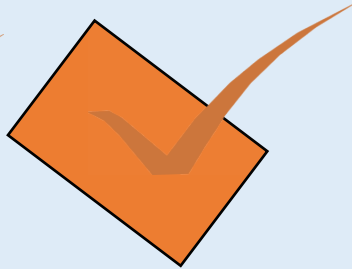
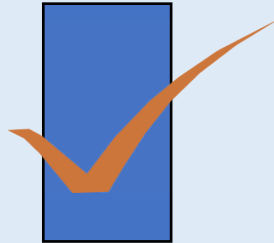
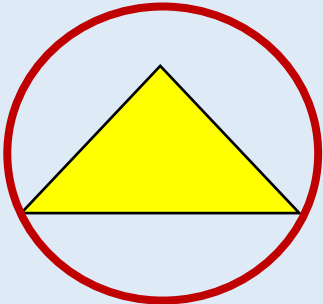
?

What can you tell me about the surfaces?

Activity 2

Recognise and name 2D shapes

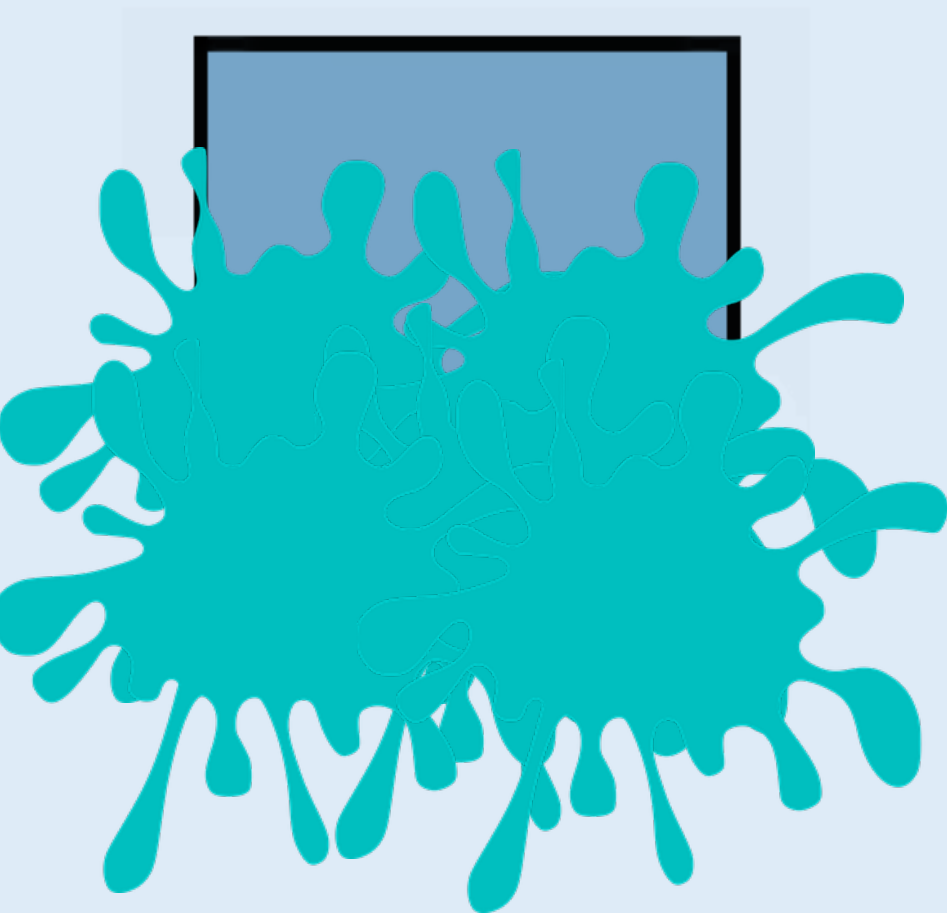
Circle the triangles. Tick the rectangles.



Reasoning 1

Recognise and name 2D shapes

Part of the shape is hidden.

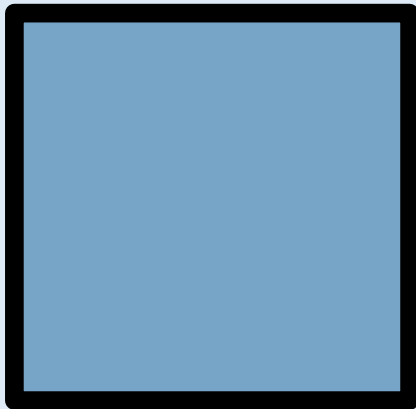


What shape could it be?
Is there more than one possibility?
Explain your thinking.

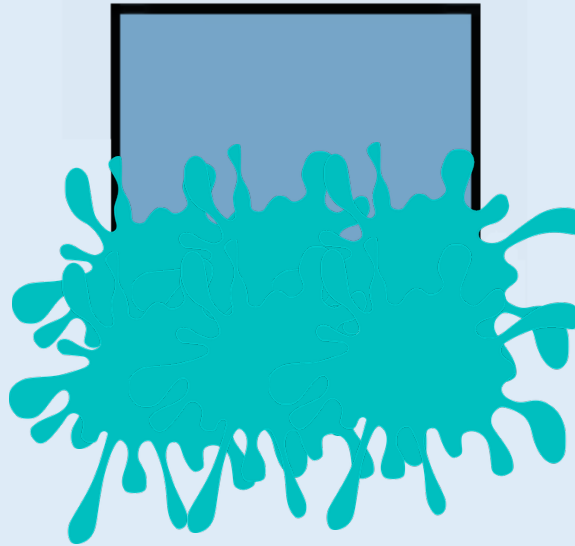
Reasoning 1

Recognise and name 2D shapes

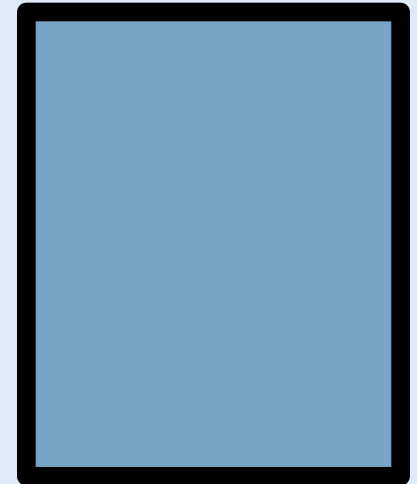
Part of the shape is hidden.



It could be a square because it can have 4 sides the same length.



What shape could it be?
Is there more than one possibility?
Explain your thinking.

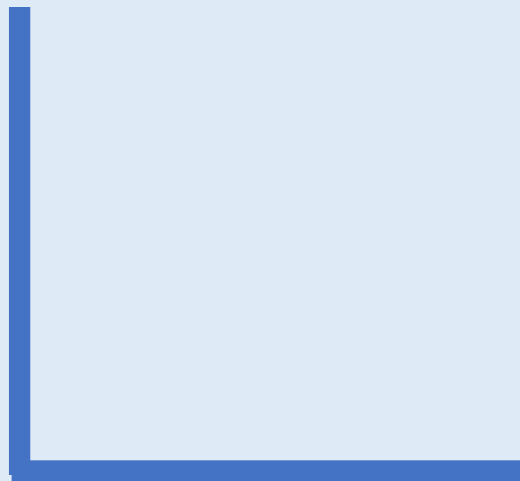


It could be a rectangle because it could have 2 longer sides.

Reasoning 2

Recognise and name 2D shapes

Here is part of a shape.



How many different ways can you complete the shape using one or more straight lines?

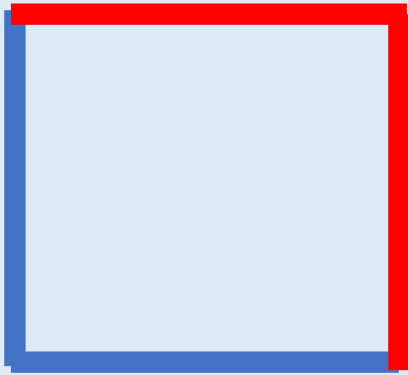
Compare yours with a partner.

What is the same and what is different?

Reasoning 2

Recognise and name 2D shapes

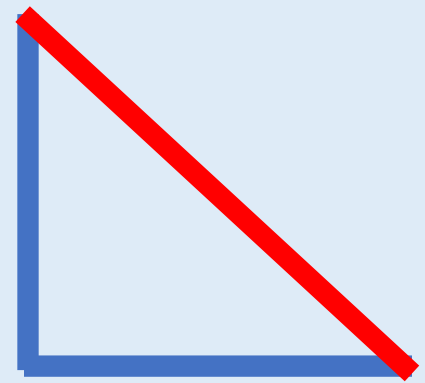
Here is part of a shape.



Square



Rectangle



Triangle

How many different ways can you complete the shape using one or more straight lines?

Compare yours with a partner.

What is the same and what is different?

What is the name of this 2D shape?

What can you tell me about the surfaces?

What are the names of the shapes on the surfaces?

How many ____ are on the surface of this shape?

Is there more than one type of shape on the surface?

Sort 2D Shapes

1



Fluency Teaching Slides

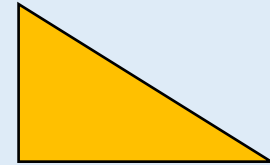
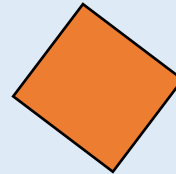
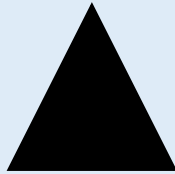
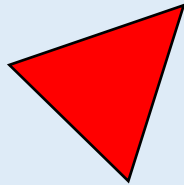
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Activity 1

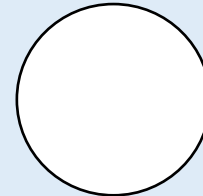
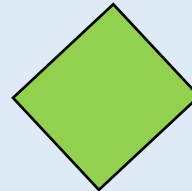
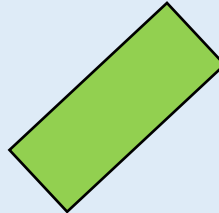
Sort 2D Shapes

Which is the odd one out in each group?

Group 1



Group 2



?

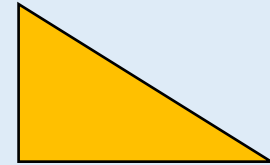
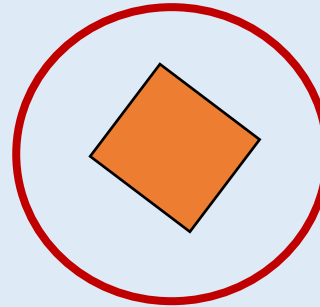
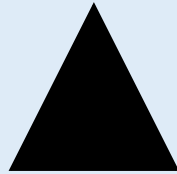
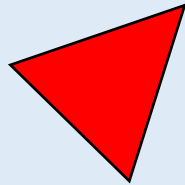
Compare your shape to a different shape – what is the same and what is different?

Activity 1

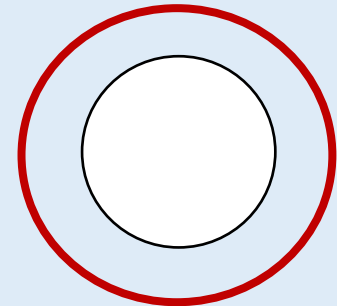
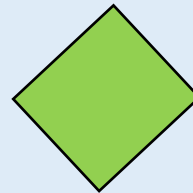
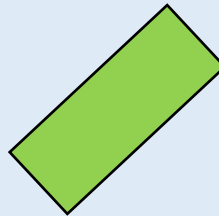
Sort 2D Shapes

Which is the odd one out in each group?

Group 1



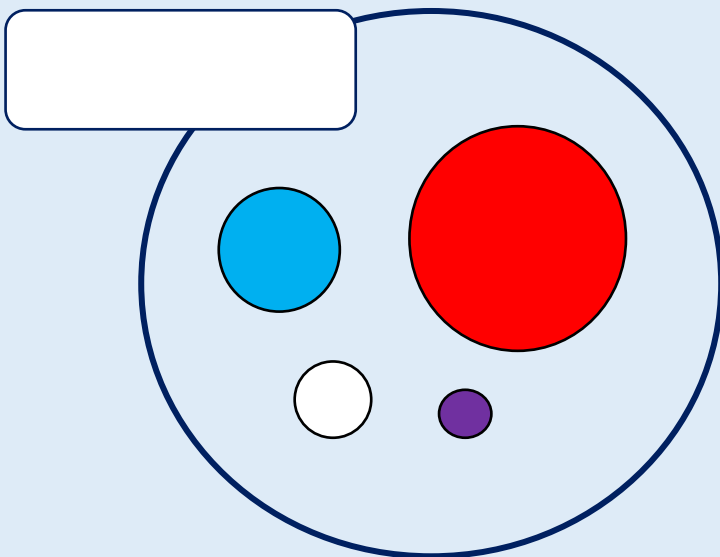
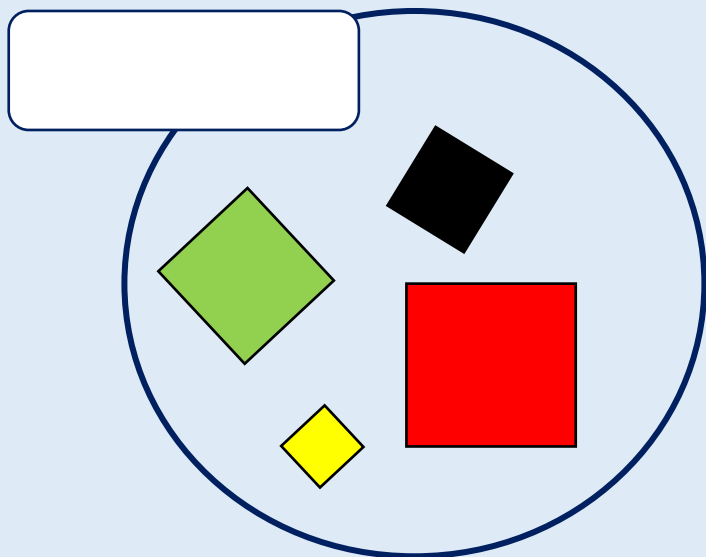
Group 2



Activity 2

Sort 2D Shapes

How have the shapes been grouped? Label the groups.



?

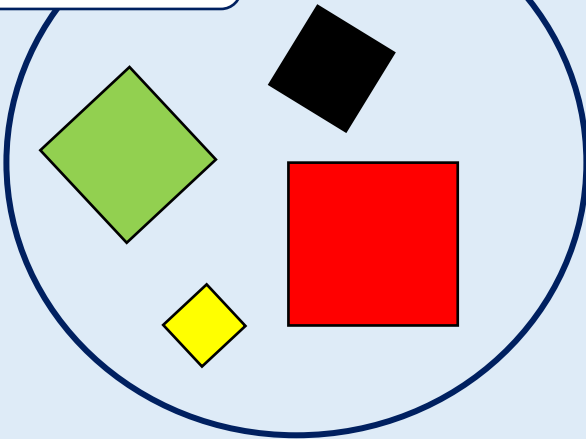
Can you describe the shape?

Activity 2

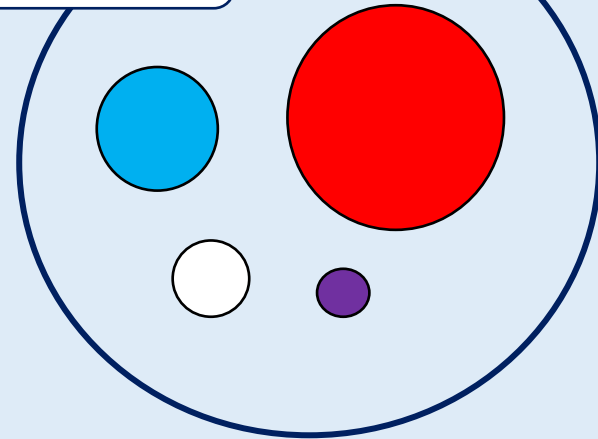
Sort 2D Shapes

How have the shapes been grouped? Label the groups.

Squares



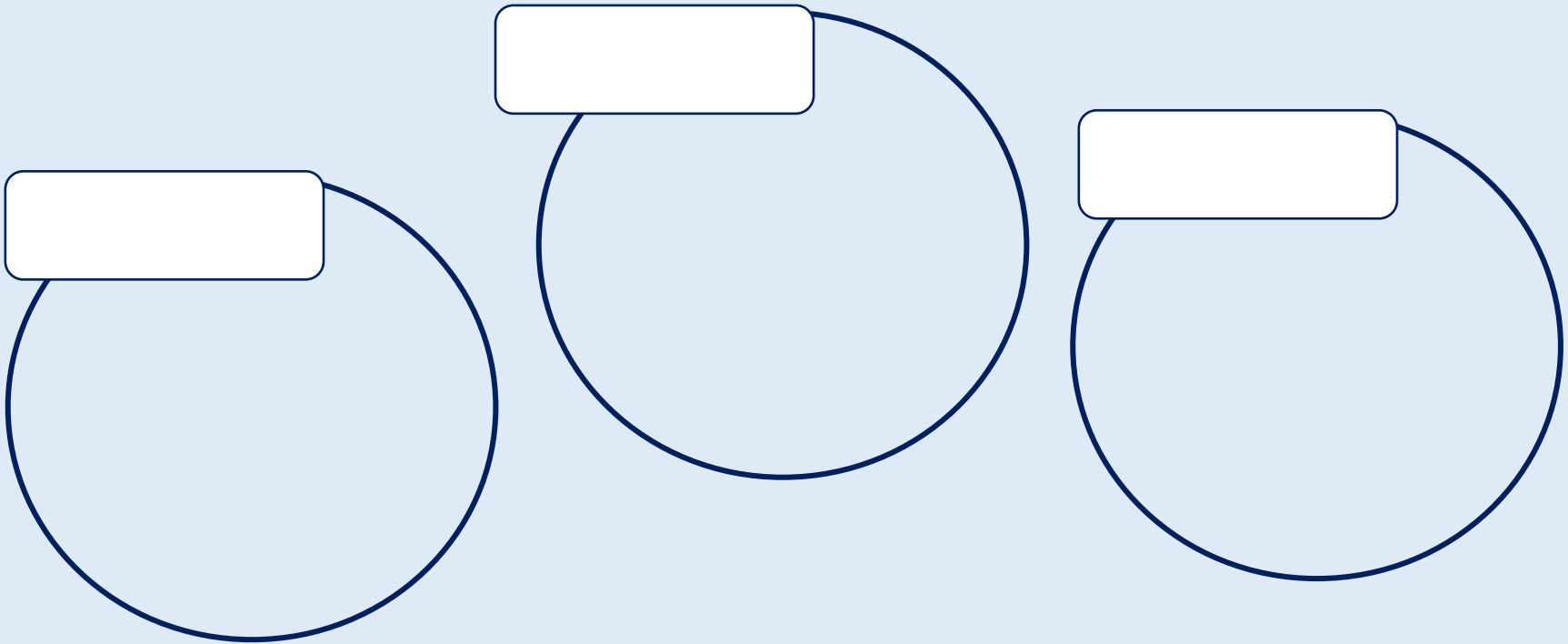
Circles



Activity 3

Sort 2D Shapes

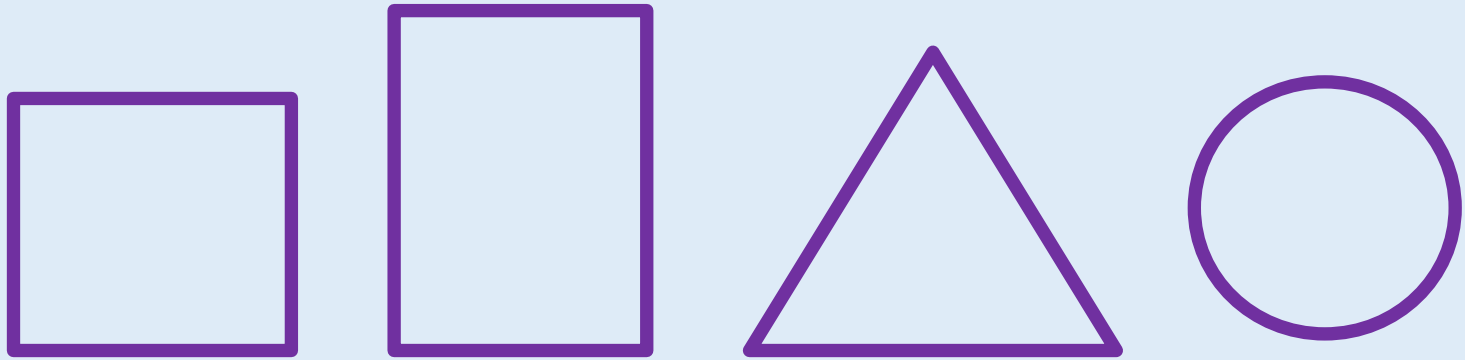
Use a selection of triangles, rectangles, squares and circles.
Put your shapes into groups.
Ask a friend to label the groups.



Reasoning 1

Sort 2D Shapes

Use a selection of triangles, rectangles, squares and circles.

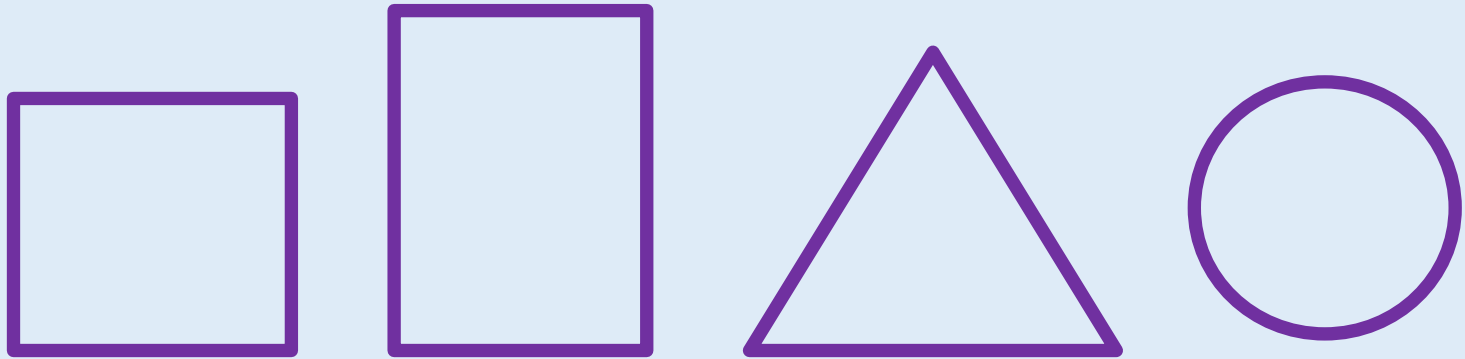


Put your shapes into groups.
Ask a partner to label your groups.
How many different groups can you create?

Reasoning 1

Sort 2D Shapes

Use a selection of triangles, rectangles, squares and circles.



Put your shapes into groups.
Ask a partner to label your groups.
How many different groups can you create?

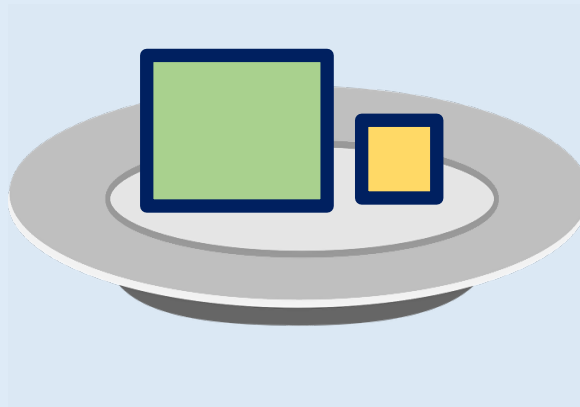
Possible ways of sorting: colour, name of shape, number of sides, etc.

Esin has sorted some shapes.

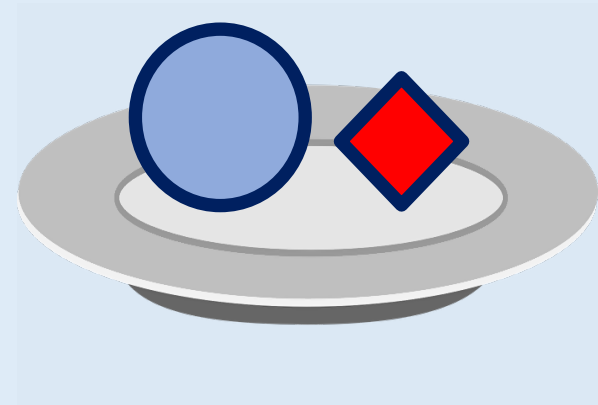


Esin

Squares



Not Squares



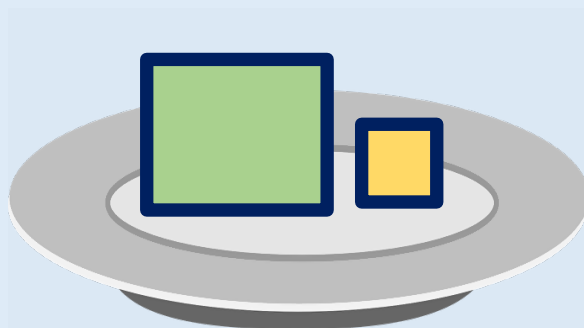
Has she sorted them correctly?
Explain how you know?

Esin has sorted some shapes.

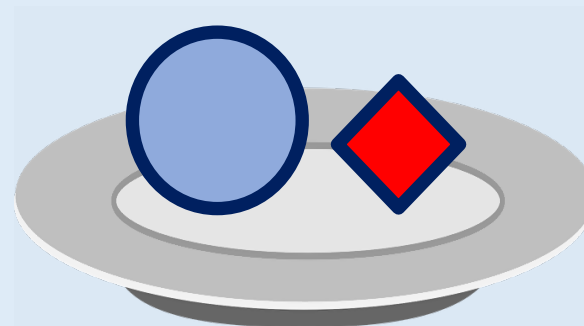


Esin

Squares



Not Squares



Has she sorted them correctly?
Explain how you know?

She has not sorted them correctly.
The red shape is a square, it is just a
different way round.

What is the name of this shape?

Can you describe the shape?

Compare your shape to a different shape – what is the same and what is different?

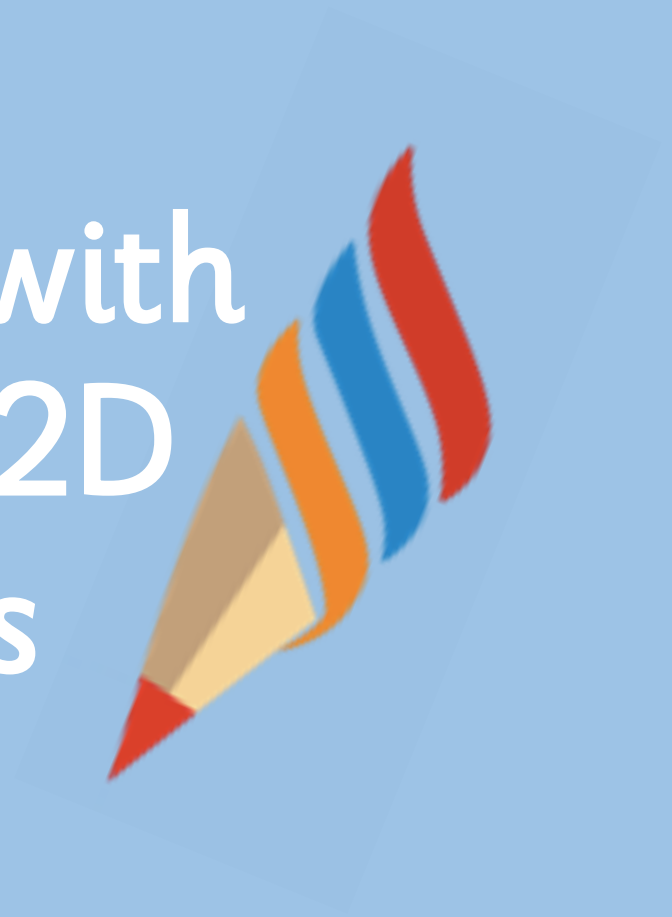
Compare your shape to other shapes with the same name – what is the same and what is different?

How have the shapes been sorted?

Could the shapes have been sorted in a different way?

Patterns with 3D and 2D Shapes

1



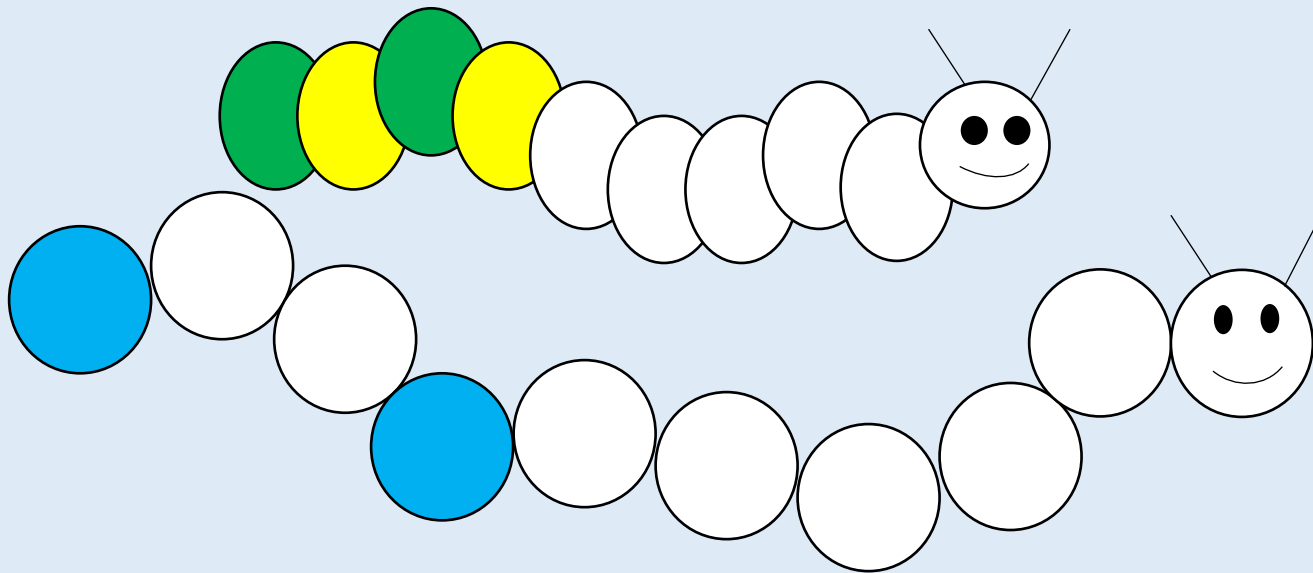
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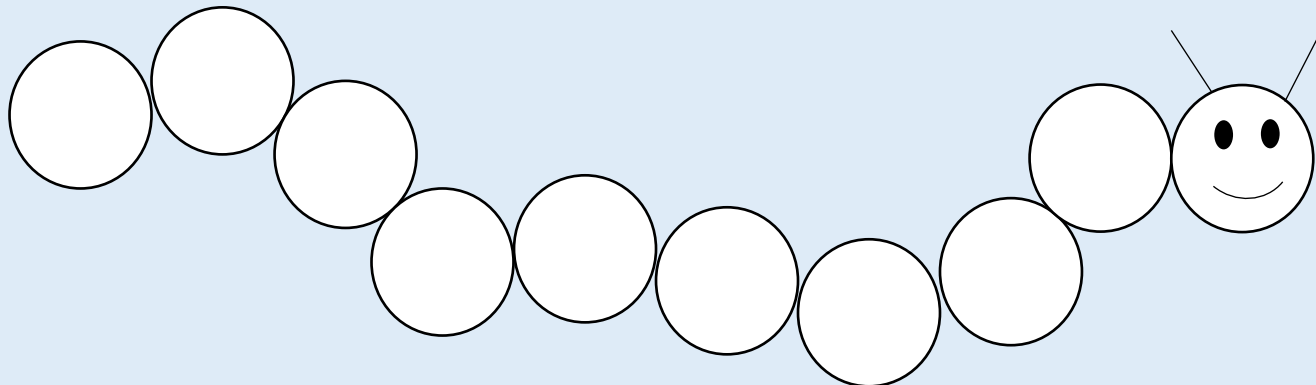
Activity 1

Patterns with 3D and 2D Shapes

Continue the patterns.



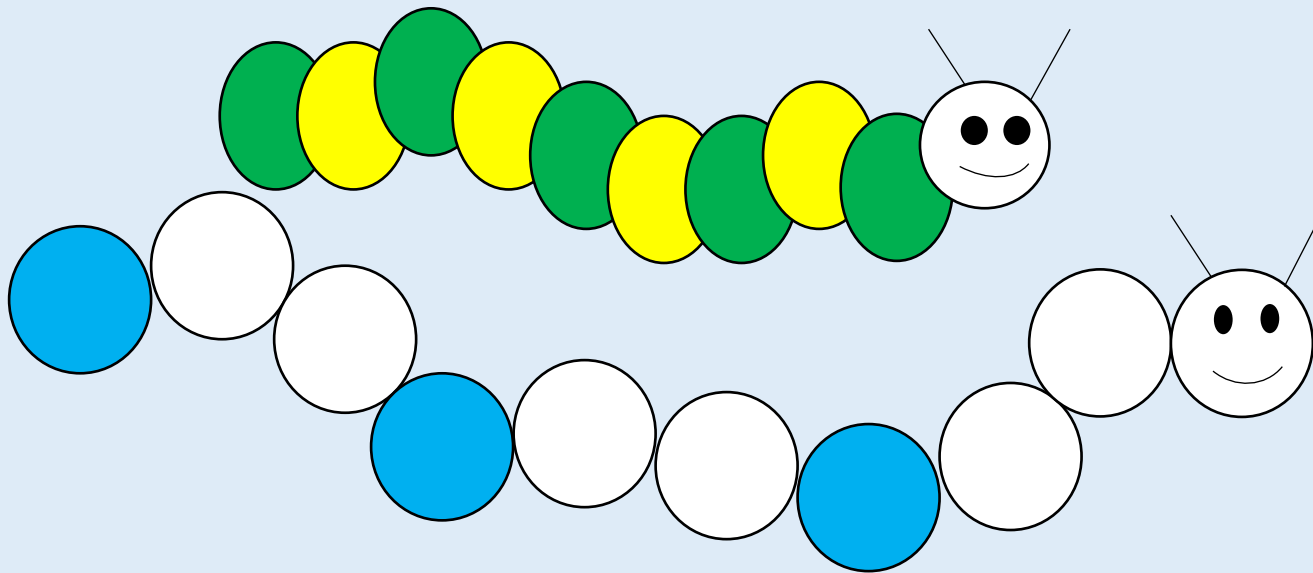
Can you create your own using two colours?



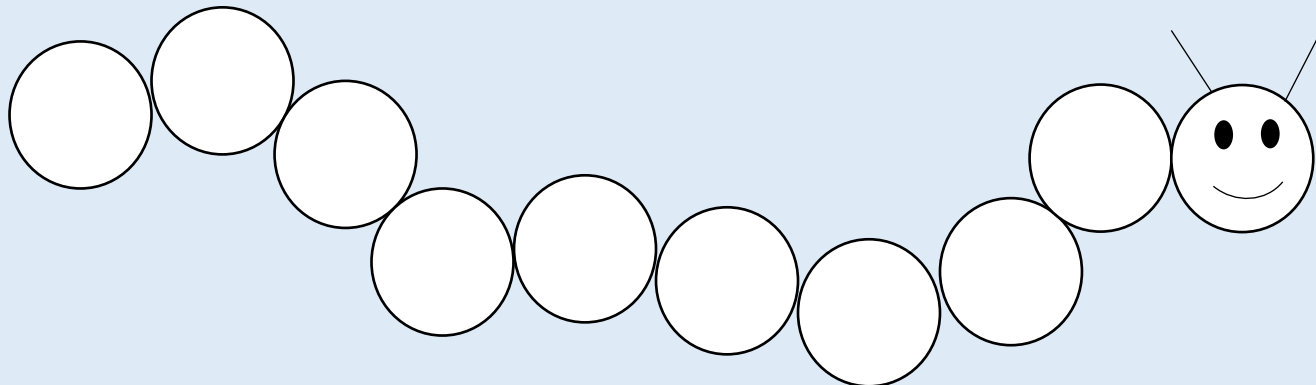
Activity 1

Patterns with 3D and 2D Shapes

Continue the patterns.



Can you create your own using two colours?



Activity 2

Patterns with 3D and 2D Shapes

Using blocks, cubes or crayons, create and continue the pattern.

1st – Yellow
2nd – Green
3rd – Blue



Using blocks, cubes or crayons, create and continue the pattern.

1st – Blue
2nd – Green
3rd – Red



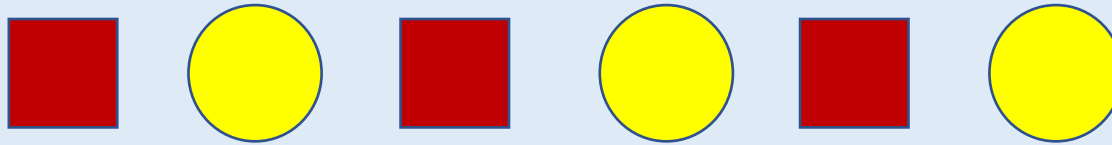
?

What do you notice about this pattern?

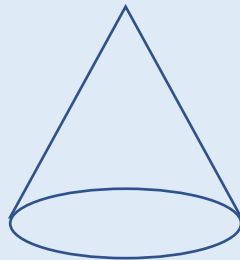
Activity 3

Patterns with 3D and 2D Shapes

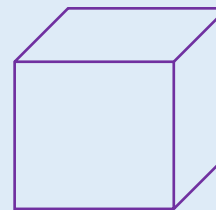
The pattern below has been created by printing 3D shapes.



What 3D shape below would you use next to continue the pattern?



Cone

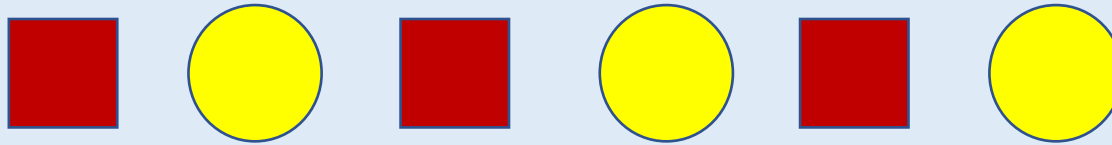


Cube

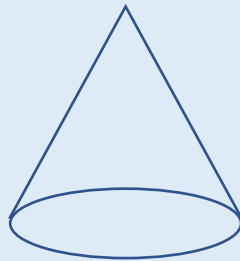
Activity 3

Patterns with 3D and 2D Shapes

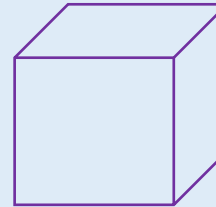
The pattern below has been created by printing 3D shapes.



What 3D shape below would you use next to continue the pattern?



Cone



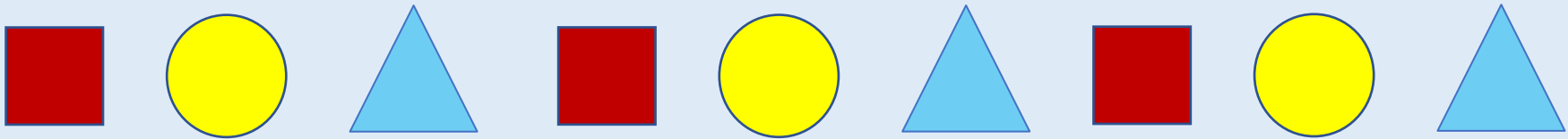
Cube

I would use a cube.

Activity 4

Patterns with 3D and 2D Shapes

Esin made this pattern below. Say the pattern aloud.

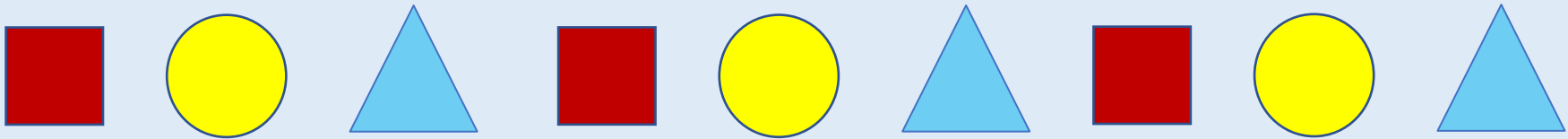


Which shape comes after the triangle?
What shape comes before the square?

Activity 4

Patterns with 3D and 2D Shapes

Esin made this pattern below. Say the pattern aloud.



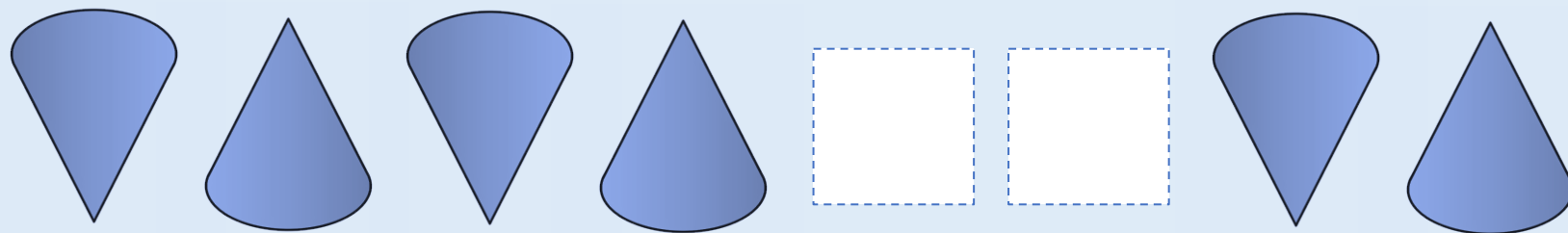
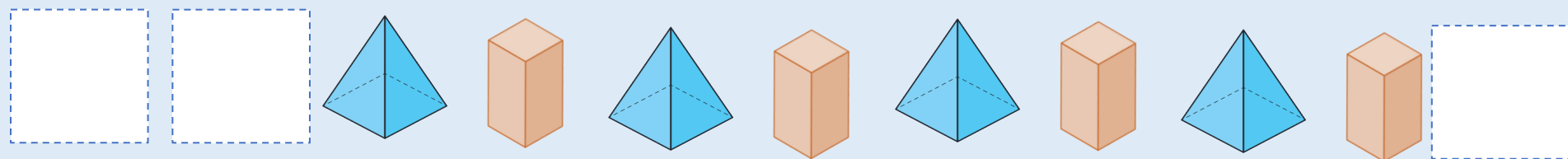
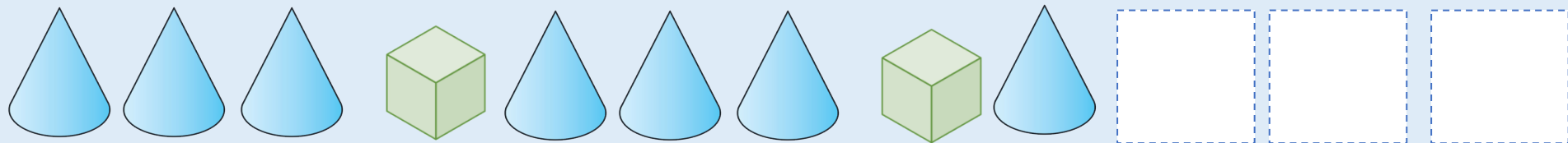
Square, circle, triangle, square, circle, triangle, square, circle, triangle

Which shape comes after the triangle? **Square**
What shape comes before the square? **Triangle**

Activity 5

Patterns with 3D and 2D Shapes

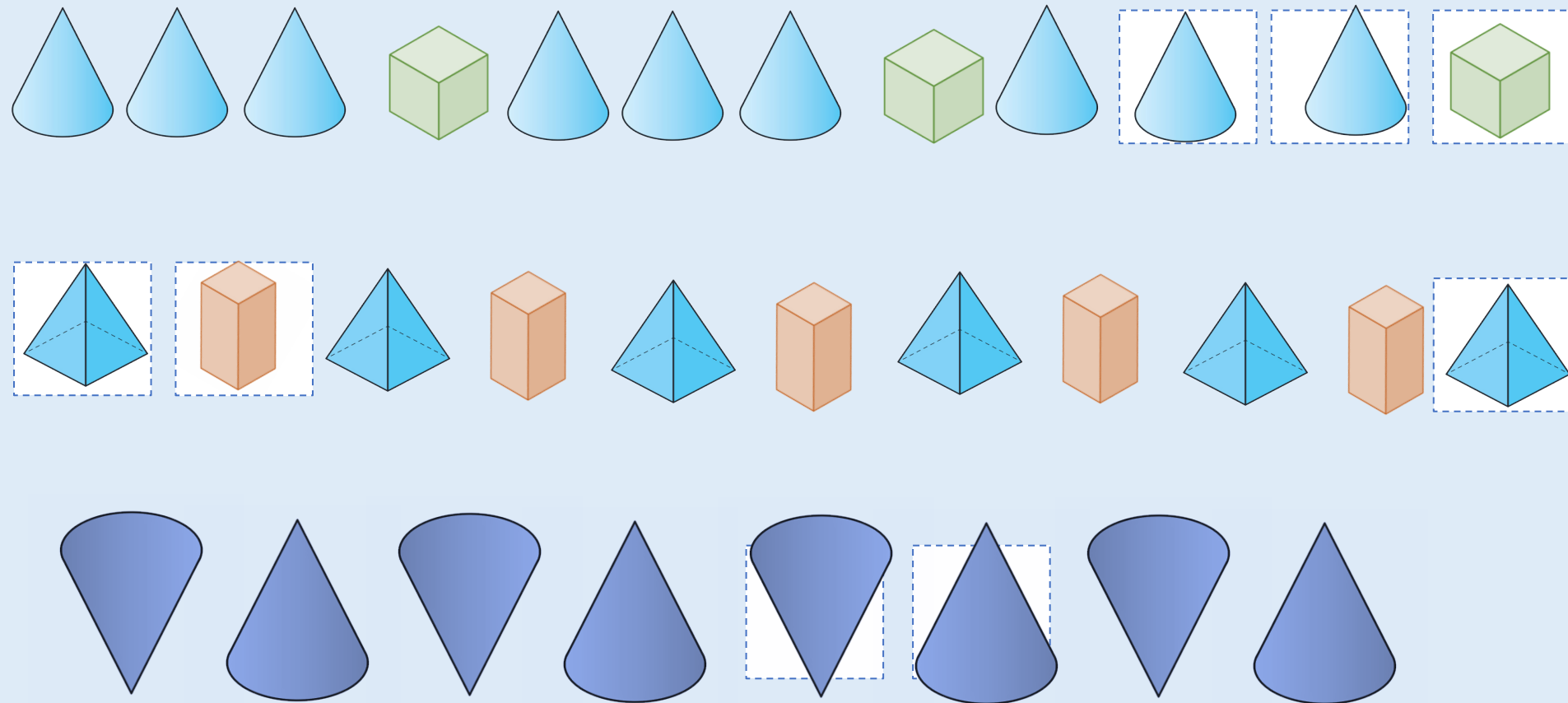
Name the missing shape in each pattern.



Activity 5

Patterns with 3D and 2D Shapes

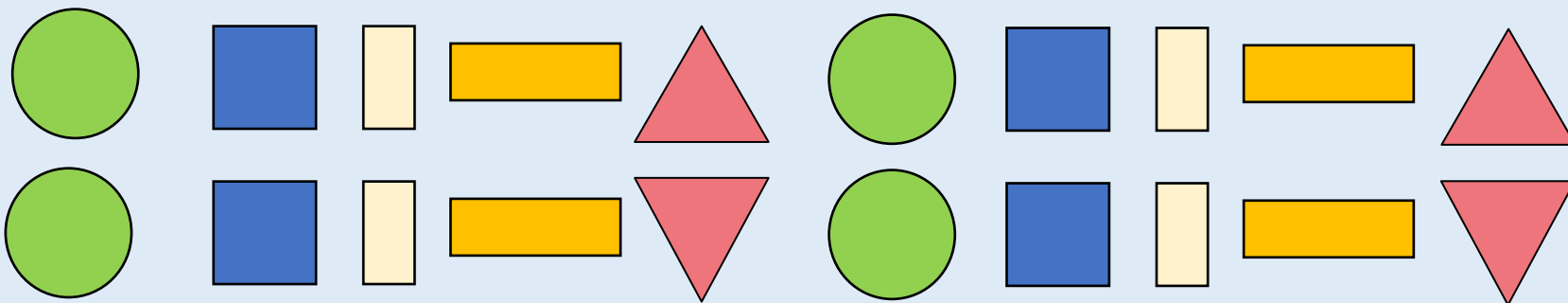
Name the missing shape in each pattern.



Reasoning 1

Patterns with 3D and 2D Shapes

Leanna and Zach have created a pattern.



Leanna

Our patterns are exactly the same.

Our patterns are different.



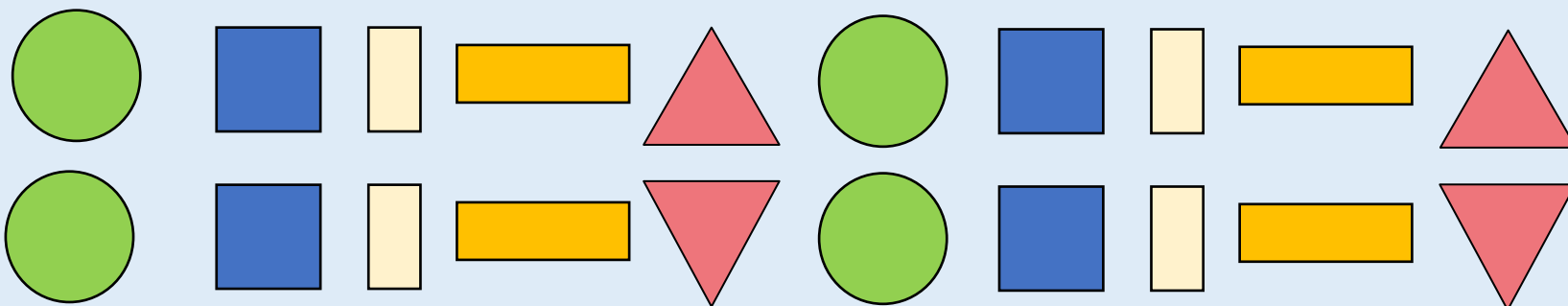
Zach

Who do you agree with?
Explain your answer.

Reasoning 1

Patterns with 3D and 2D Shapes

Leanna and Zach have created a pattern.



Leanna

Our patterns are exactly the same.

Our patterns are different.



Zach

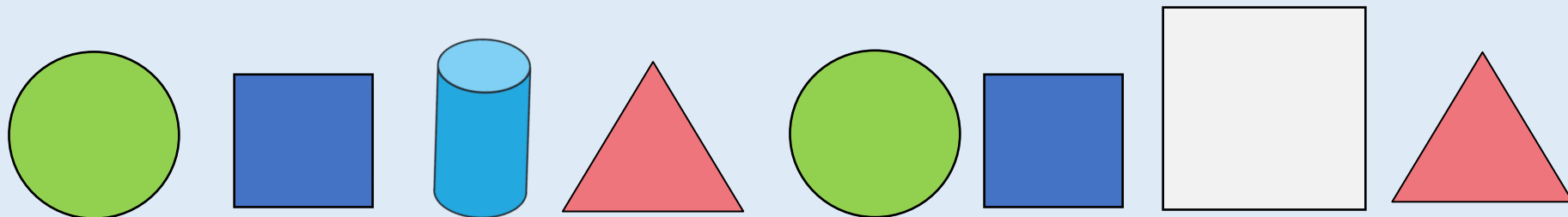
Who do you agree with?
Explain your answer.

Zach is correct because the triangle is in a different orientation.

Reasoning 2

Patterns with 3D and 2D Shapes

Which shape could go in the grey box?



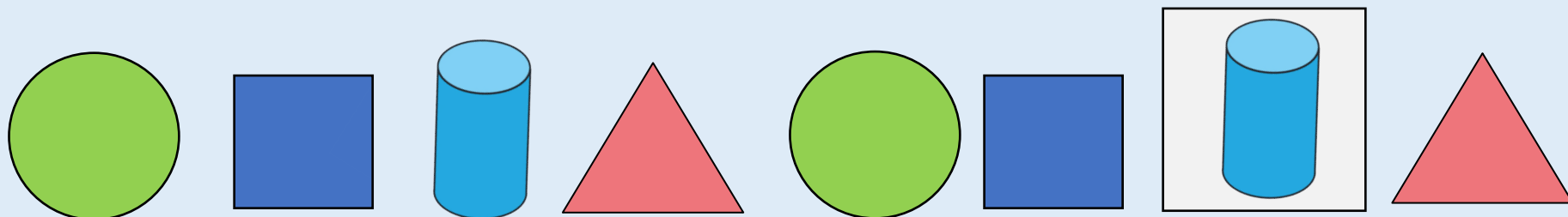
How can you check?

Can you make a different pattern with the same shapes?

Reasoning 2

Patterns with 3D and 2D Shapes

Which shape could go in the grey box?



How can you check?

Can you make a different pattern with the same shapes?

The cylinder should go in the grey box.

I can check by getting the shapes out and seeing if it repeats correctly.

What is a pattern?

What do you notice about this pattern?

What is the order of the shapes in the pattern?

How can we describe the pattern?

What is the same and what is different about the patterns?

What will the next shape be?

Can you predict the next 3 shapes?

Which shape is first/second/third/last?