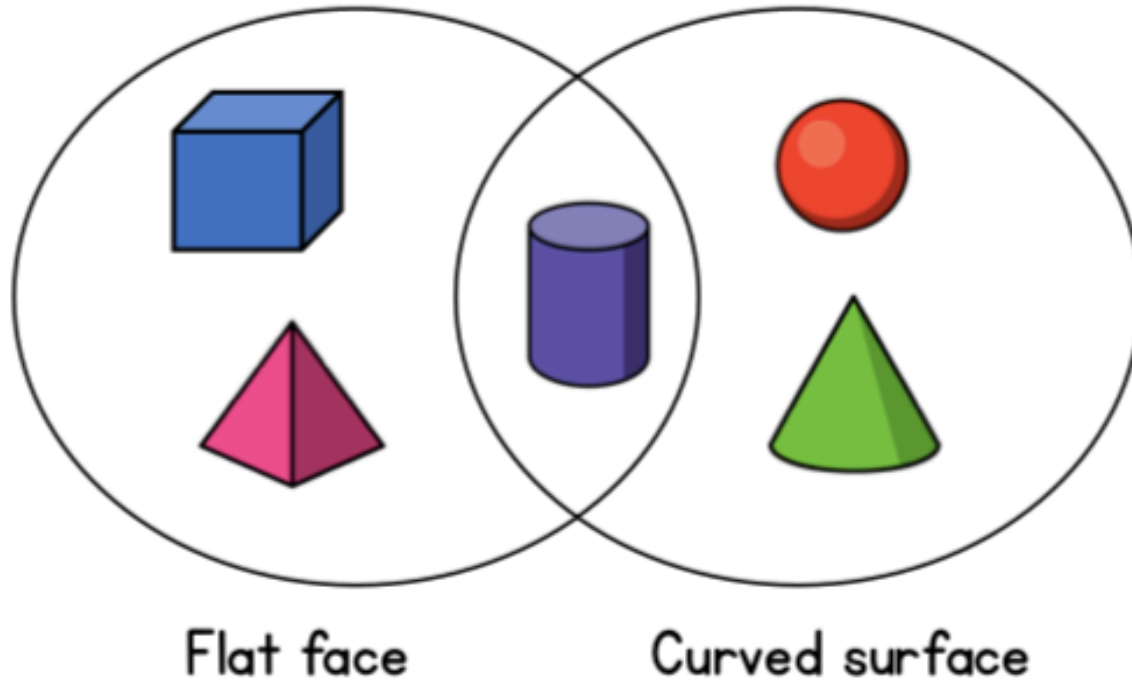


Skill: I can make patterns with 3 D shapes

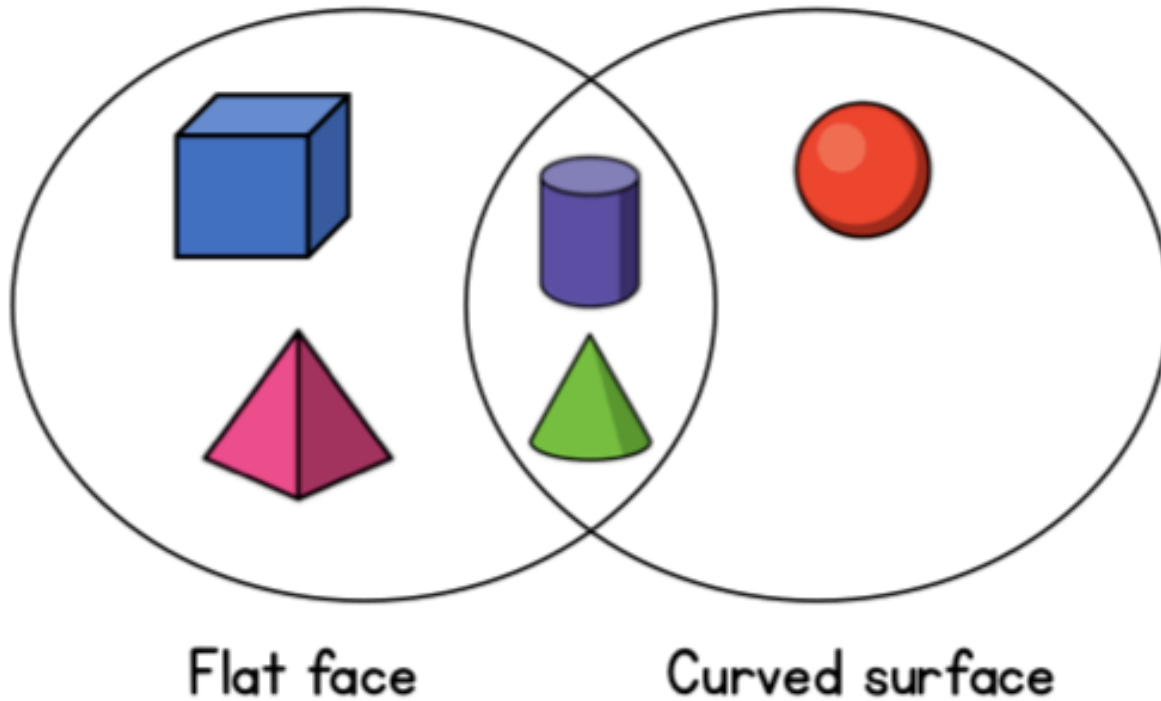
Big Question

The 3-D shapes are sorted correctly.



False

A cone has 1 flat face and one curved surface.



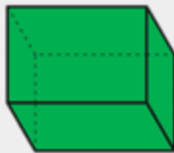
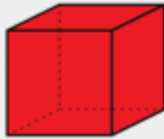
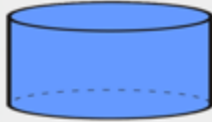
Can you practice your 4 x table with the Numberock crew?

https://www.youtube.com/watch?v=UJY1_fzM6Y



Introduction

Match the 3D shape with its name.



cube

cuboid

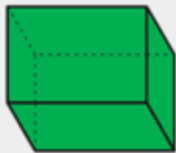
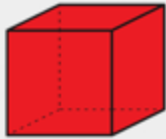
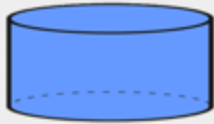
sphere

cone

cylinder

Introduction

Match the 3D shape with its name.



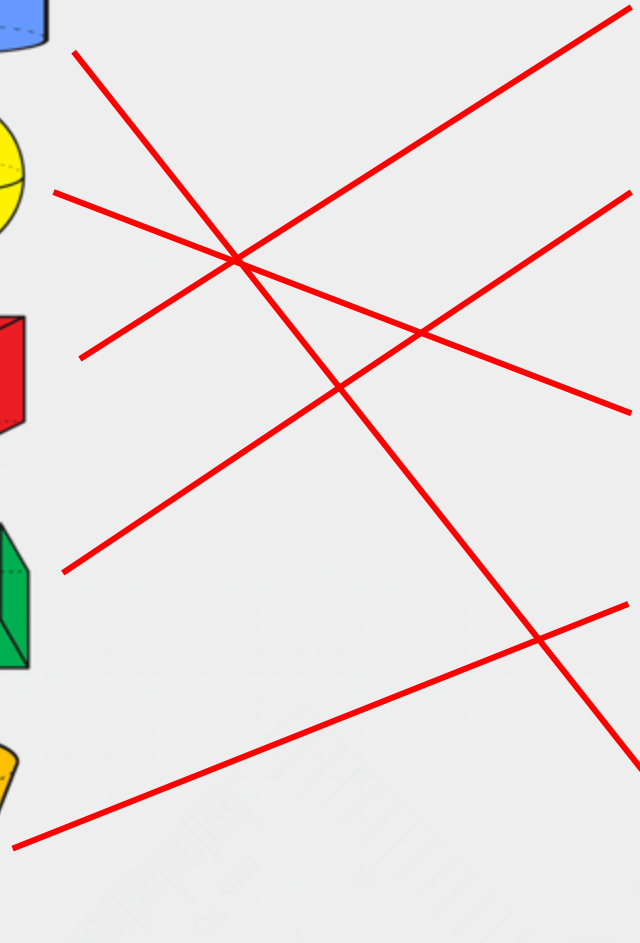
cube

cuboid

sphere

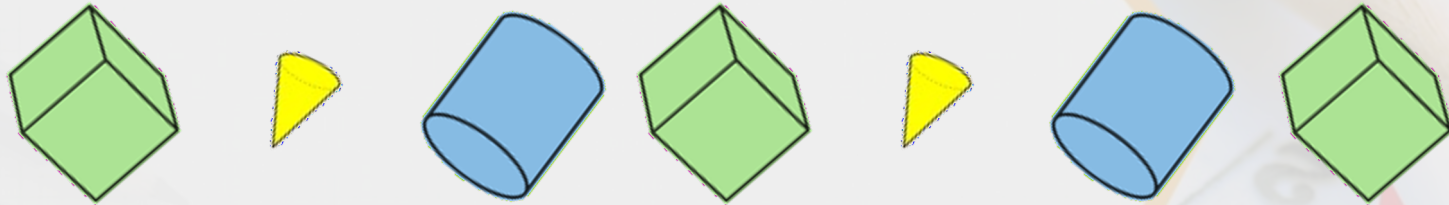
cone

cylinder



Varied Fluency 1

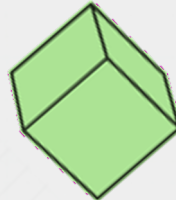
Circle the shape that will come next in the pattern below.



A.



B.

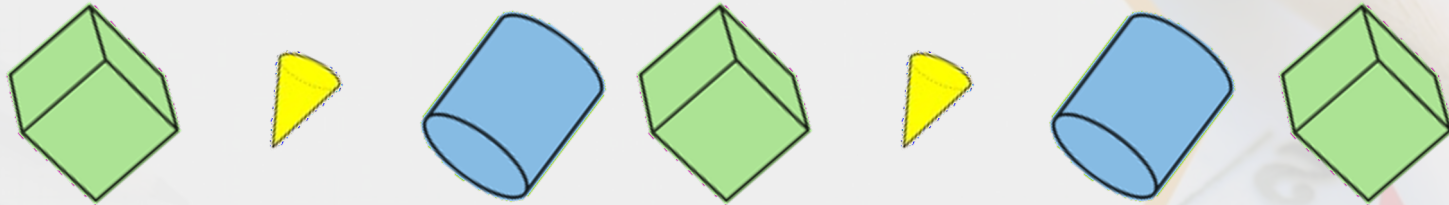


C.

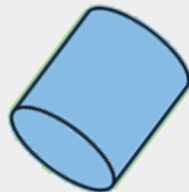


Varied Fluency 1

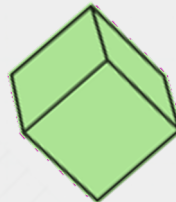
Circle the shape that will come next in the pattern below.



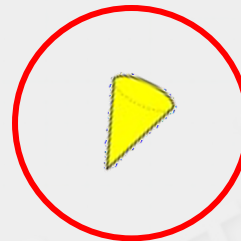
A.



B.

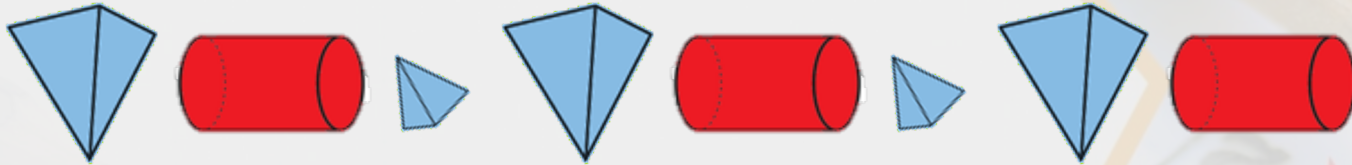


C.



Varied Fluency 2

Name the next shape in the pattern.



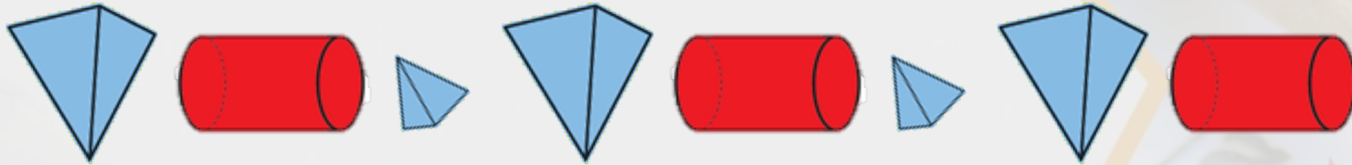
large
pyramid

cylinder

small
pyramid

Varied Fluency 2

Name the next shape in the pattern.



large
pyramid

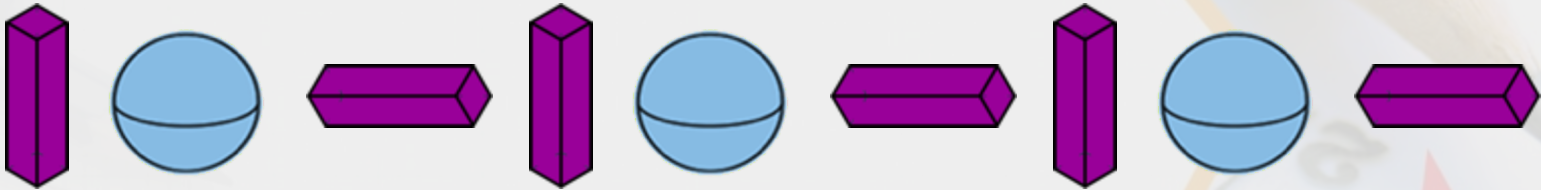
cylinder

small
pyramid

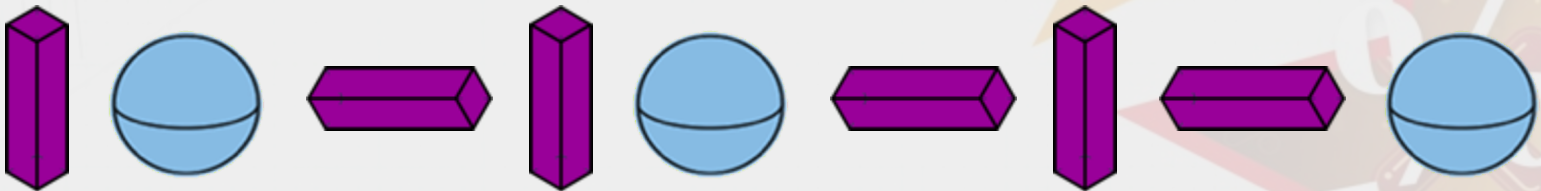
Varied Fluency 3

Which pattern is correct?

A.



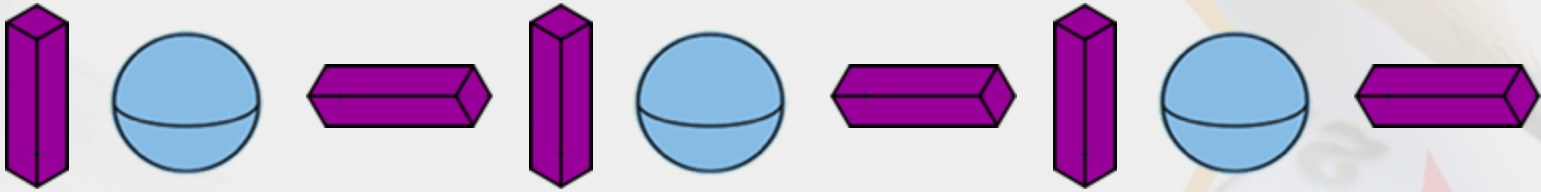
B.



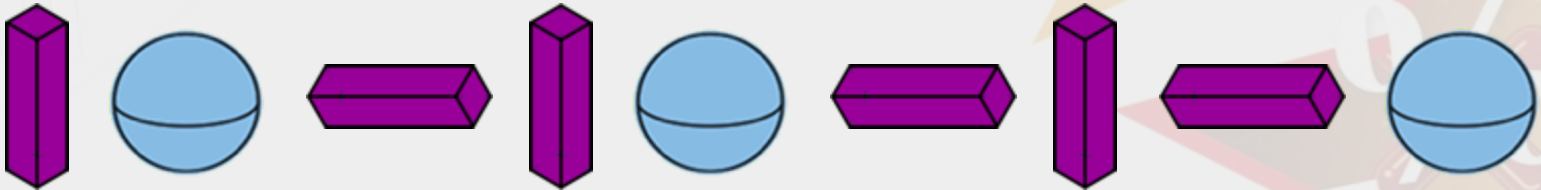
Varied Fluency 3

Which pattern is correct?

A.



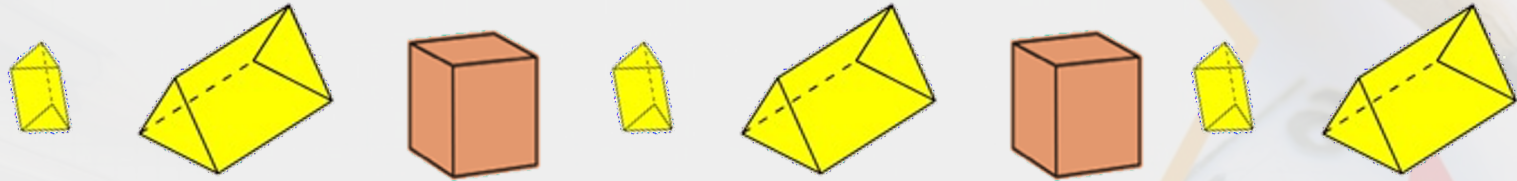
B.



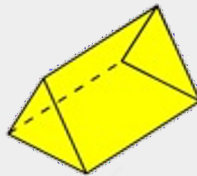
A

Varied Fluency 4

Circle the shape that will be twelfth in the pattern.



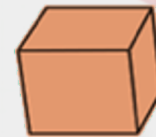
A.



B.



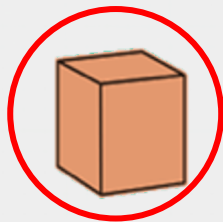
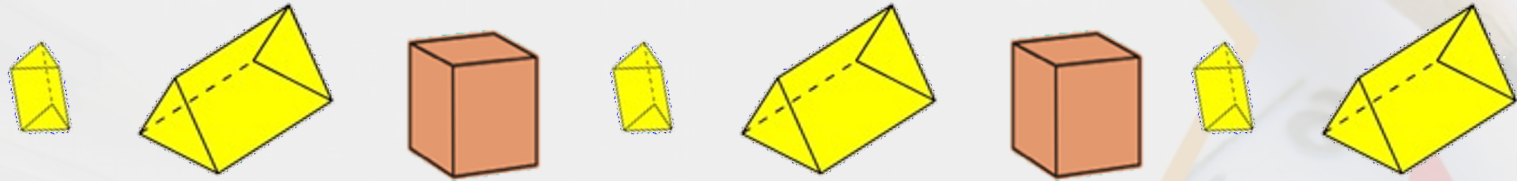
C.



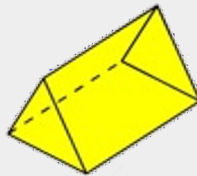
D.

Varied Fluency 4

Circle the shape that will be twelfth in the pattern.



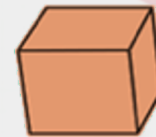
A.



B.



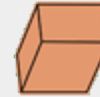
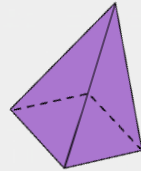
C.



D.

Problem Solving 1

Nazma has made a pattern using these 3D shapes.

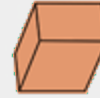
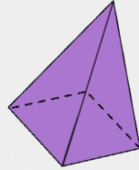


The 9th shape is a cuboid.
The 1st shape is a sphere.
The pyramid comes before
the cuboid.

Create the pattern using the names of the shapes.

Problem Solving 1

Nazma has made a pattern using these 3D shapes.



The 9th shape is a cuboid.
The 1st shape is a sphere.
The pyramid comes before
the cuboid.

Create the pattern using the names of the shapes.

sphere

pyramid

cuboid

Reasoning 1

Name the shapes hidden under the splat.



Explain how you know.

Reasoning 1

Name the shapes hidden under the splat.



Explain how you know.

The large cylinder and cuboid are hidden under the splat because...

Reasoning 1

Name the shapes hidden under the splat.

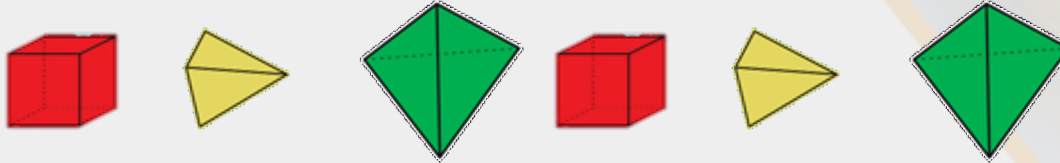


Explain how you know.

The large cylinder and the cuboid are hidden under the splat because there are 3 different shapes in the pattern and the large cylinder comes after the small cylinder and the cuboid comes after the large cylinder.

Reasoning 2

The children are talking about the pattern.



Mabel

The 10th shape will be
a cube.

The 10th shape will be
a large pyramid.

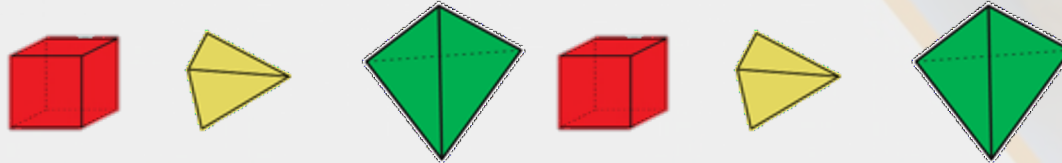


Jamie

Who is correct? Explain why.

Reasoning 2

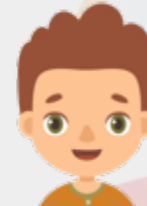
The children are talking about the pattern.



Mabel

The tenth shape will be a cube.

The tenth shape will be a large pyramid.

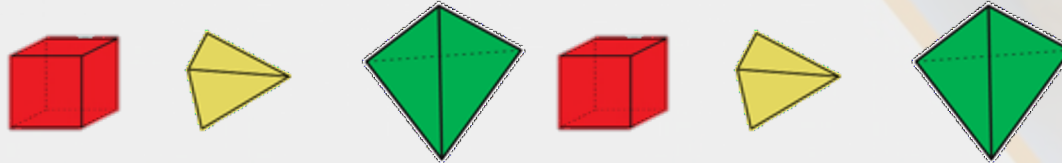


Jamie

Who is correct? Explain why.
Mabel is correct because...

Reasoning 2

The children are talking about the pattern.



Mabel

The 10th shape will be a cube.

The 10th shape will be a large pyramid.



Jamie

Who is correct? Explain why.

Mabel is correct because there are 3 different shapes in the pattern and the cube is the first shape and is repeated as the 4th, 7th and 10th shape.

Independent Task

Make patterns with 3D shapes

1 Draw the next shape in each pattern.



2 What is the name of the 3rd shape in the pattern?



3 Here is a pattern made with 3D shapes.



a) Write the name of the 4th shape in the pattern.

b) What would the 13th shape in the pattern be?

4 Which row shows the pattern?

a) cube, sphere, cone, cube, sphere, cone

