YEAR 2

Properties of shape

- Lines of symmetry
- Sort 2D shapes
- Make patterns with 2D shapes
- Count faces on 3D shapes

PrimaryStars EDUCATION

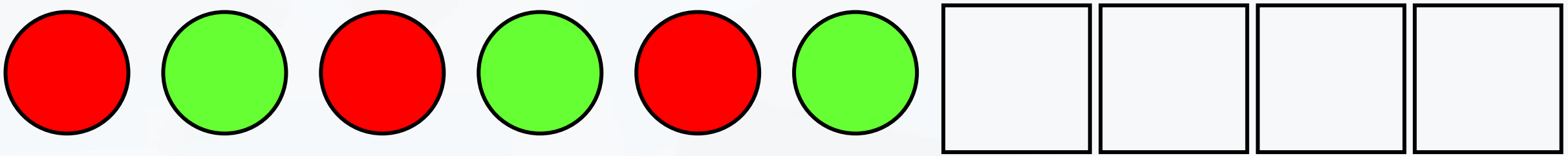
Block 3 – Week 8

Monday
Short
Lesson 1

Step: Make patterns with 2D shapes

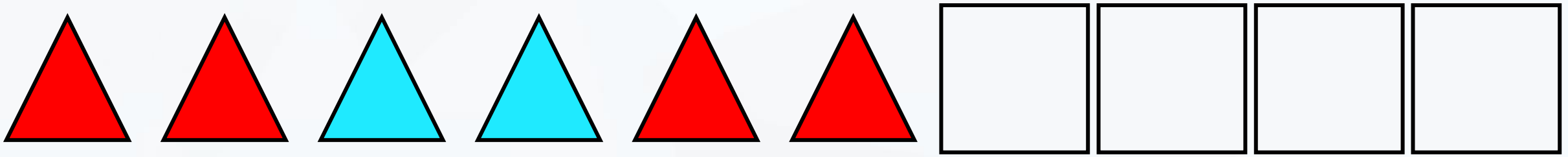
Fluency

Continue the pattern.



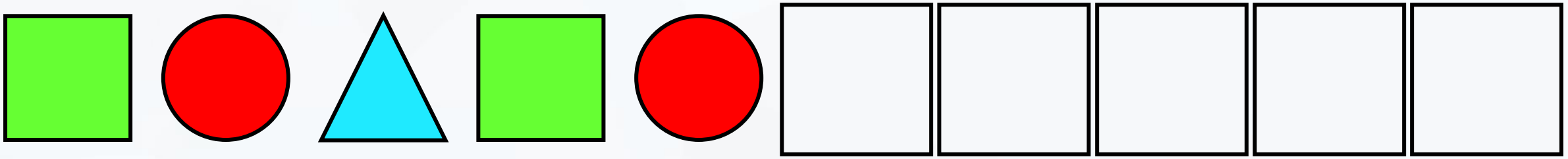
Fluency

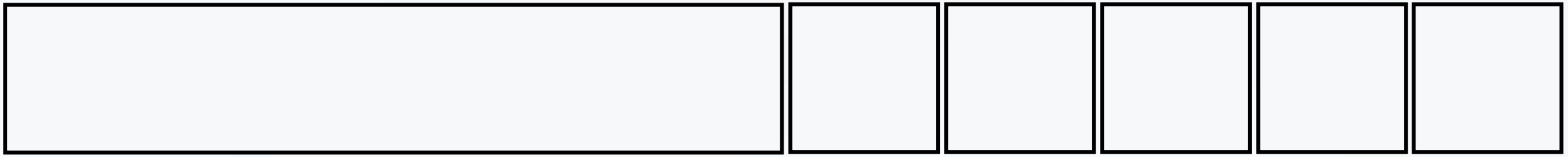
Continue the pattern.



Fluency

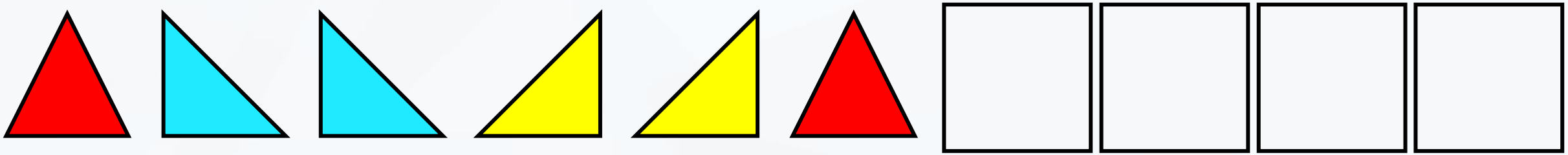
Continue the pattern.

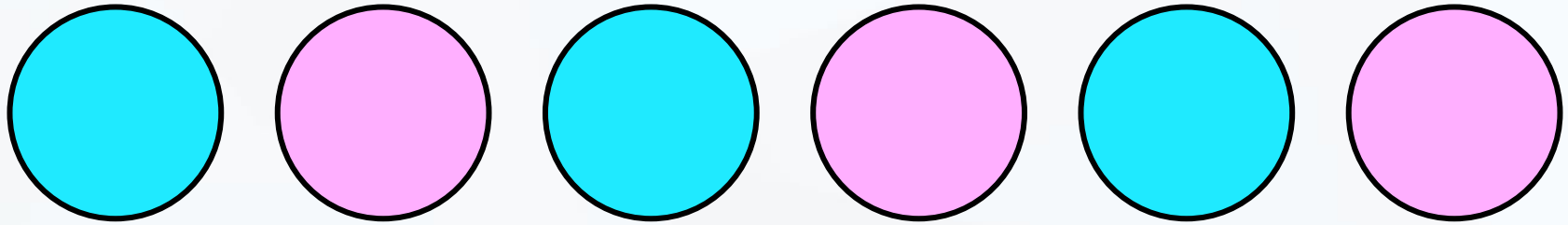




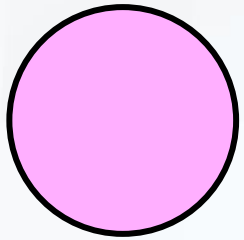
Fluency

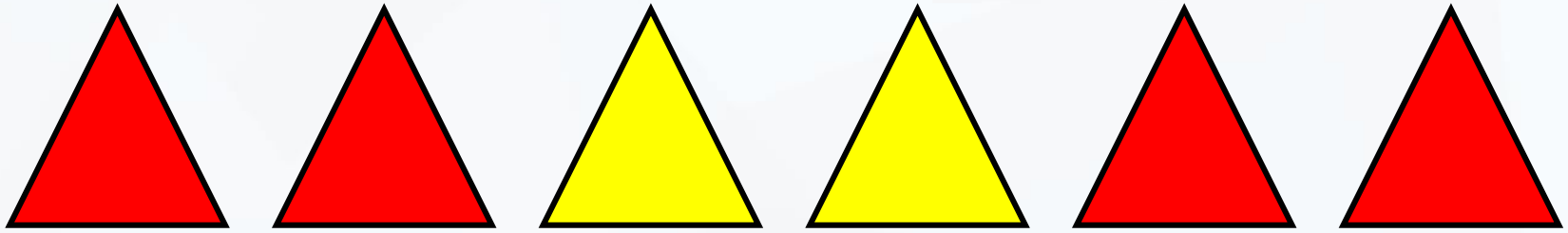
Continue the pattern.



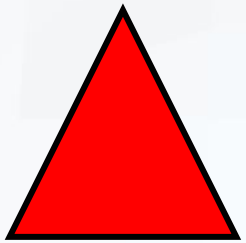


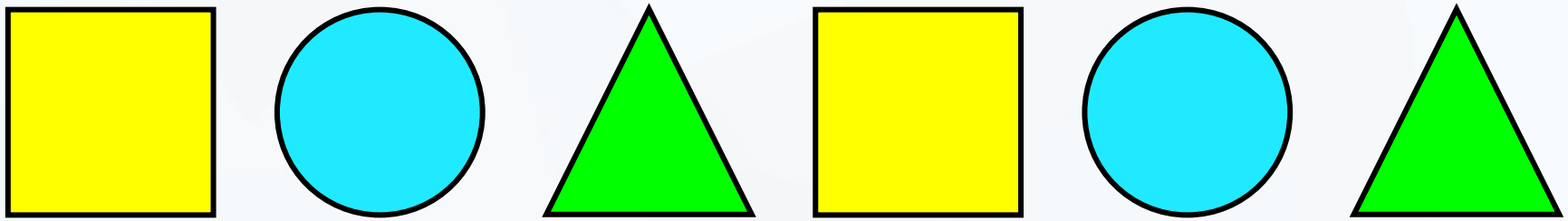
What would be the 8th shape in this pattern be?



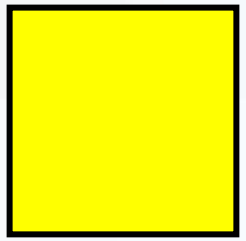


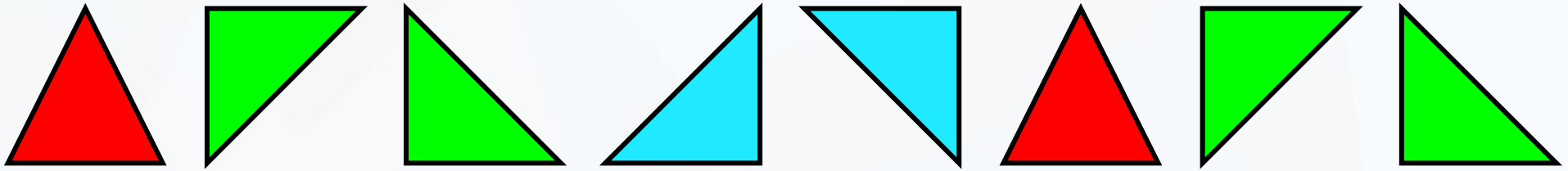
What would be the 9th shape in this pattern be?





What would be the 10th shape in this pattern be?

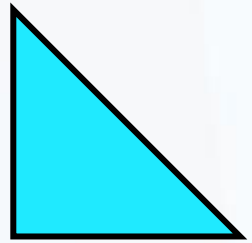


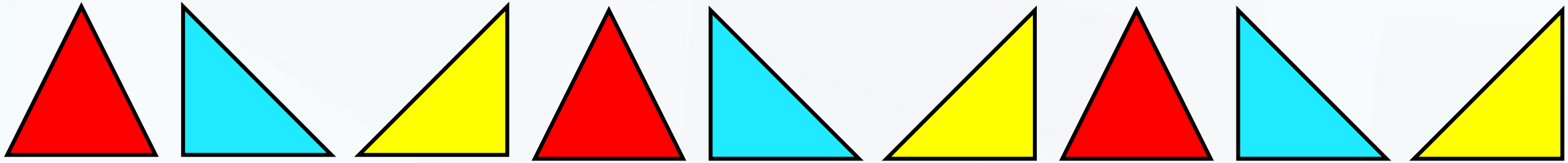


What would be the 11th shape in this pattern be?

Gina says,

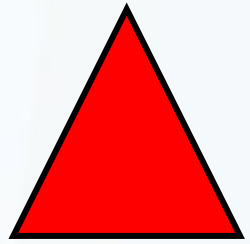
The next shape in the pattern is this blue triangle.



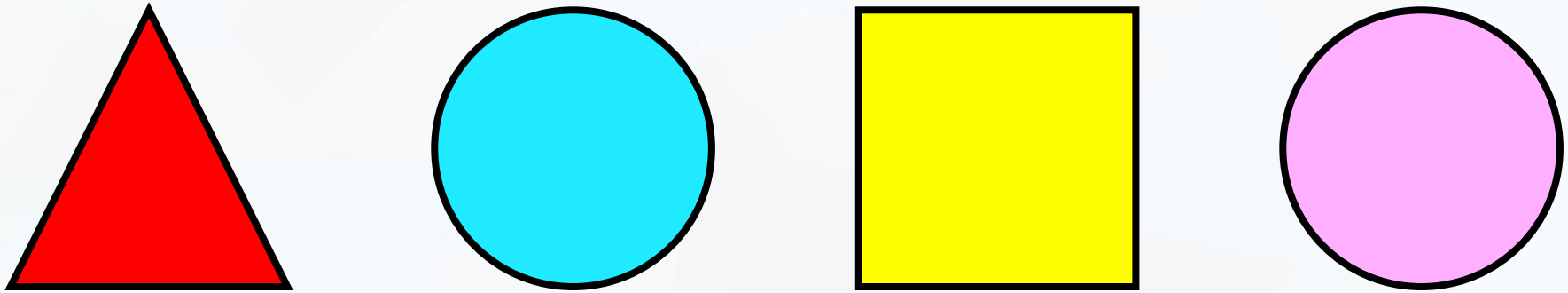


Is Gina correct?

No Gina is not correct.
The next shape in the pattern is a red triangle.



Problem solving



Create patterns using the shapes above.

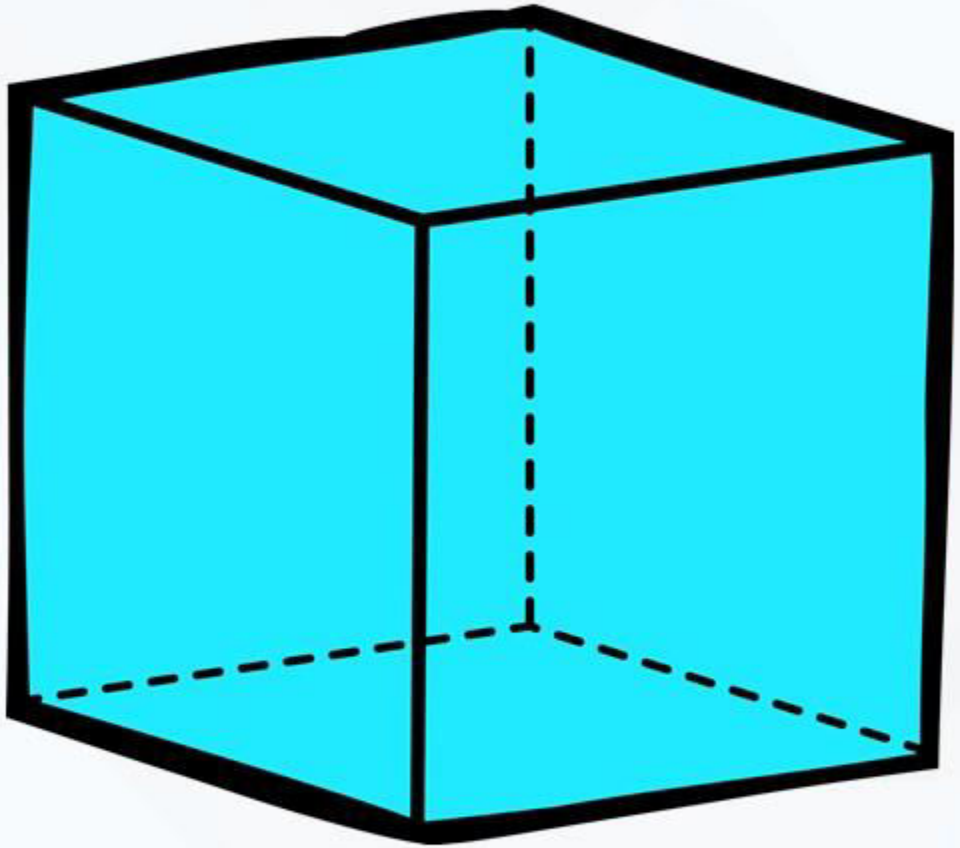
You must use each shape at least once.

Wednesday Short Lesson 2

Step: Count faces on 3 shapes

Fluency

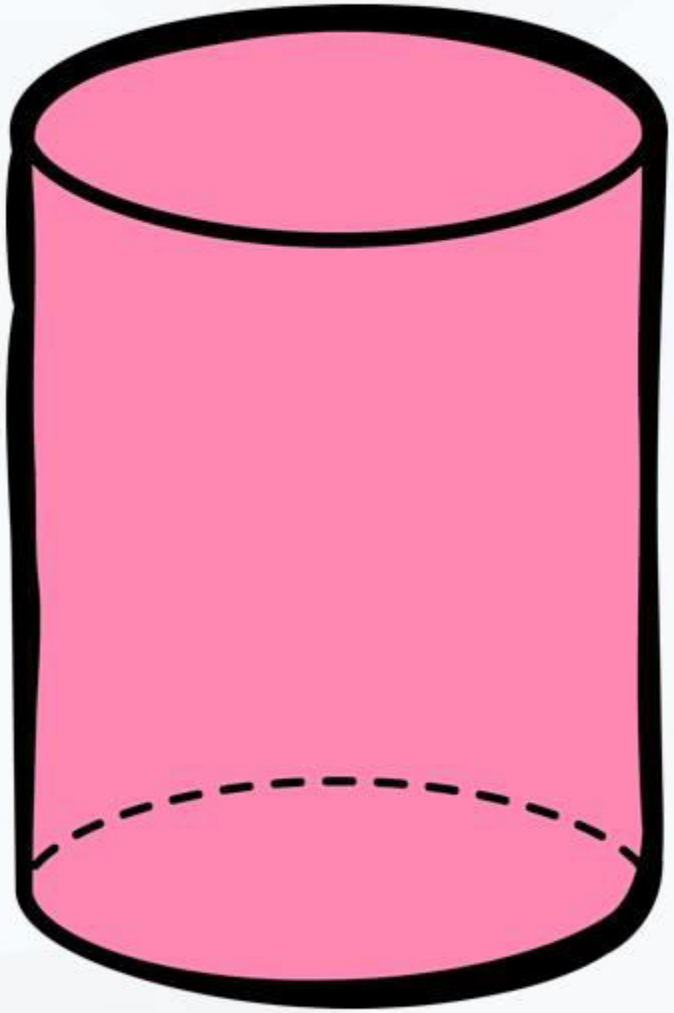
Which 2D shape can be seen on the face of this 3D shape?



square

Fluency

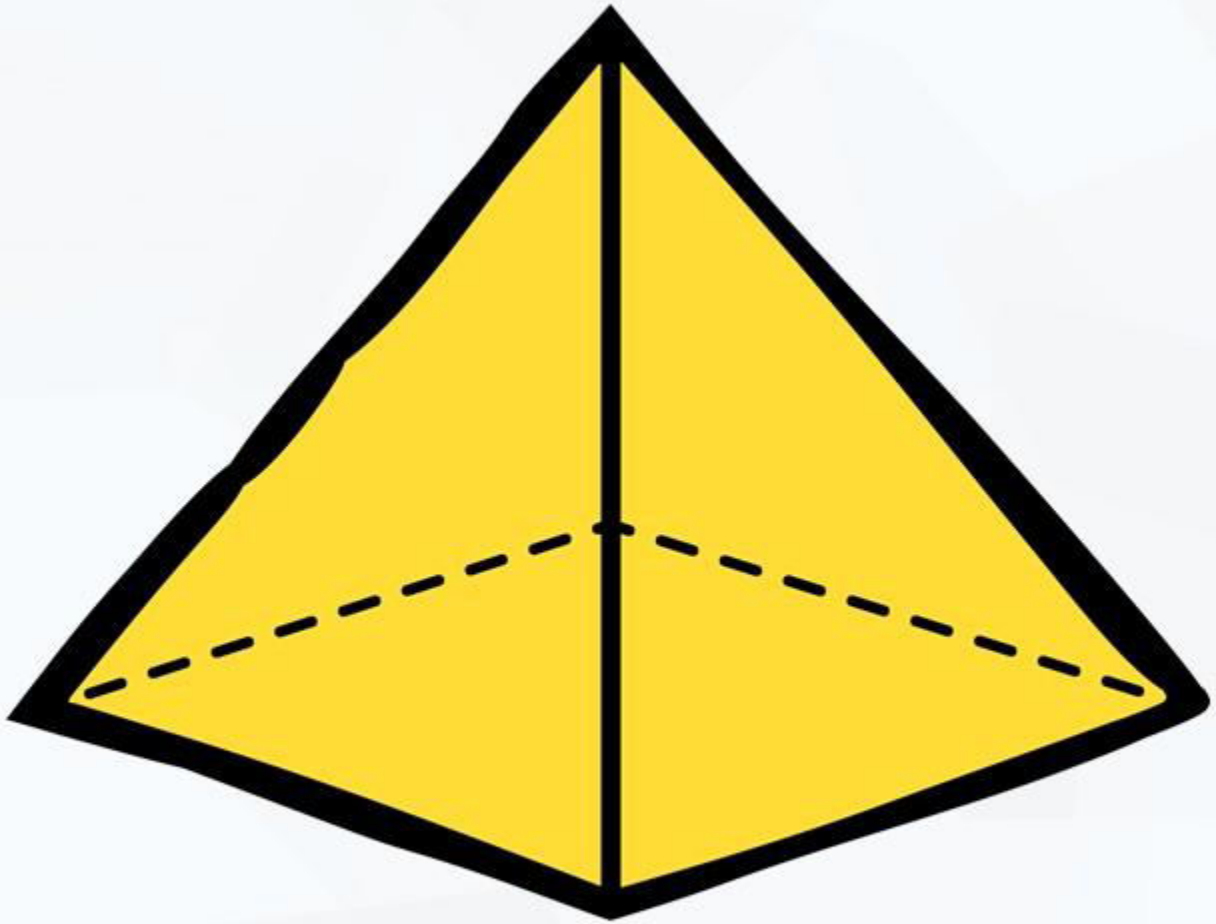
Which 2D shape can be seen on the face of this 3D shape?



circle

Fluency

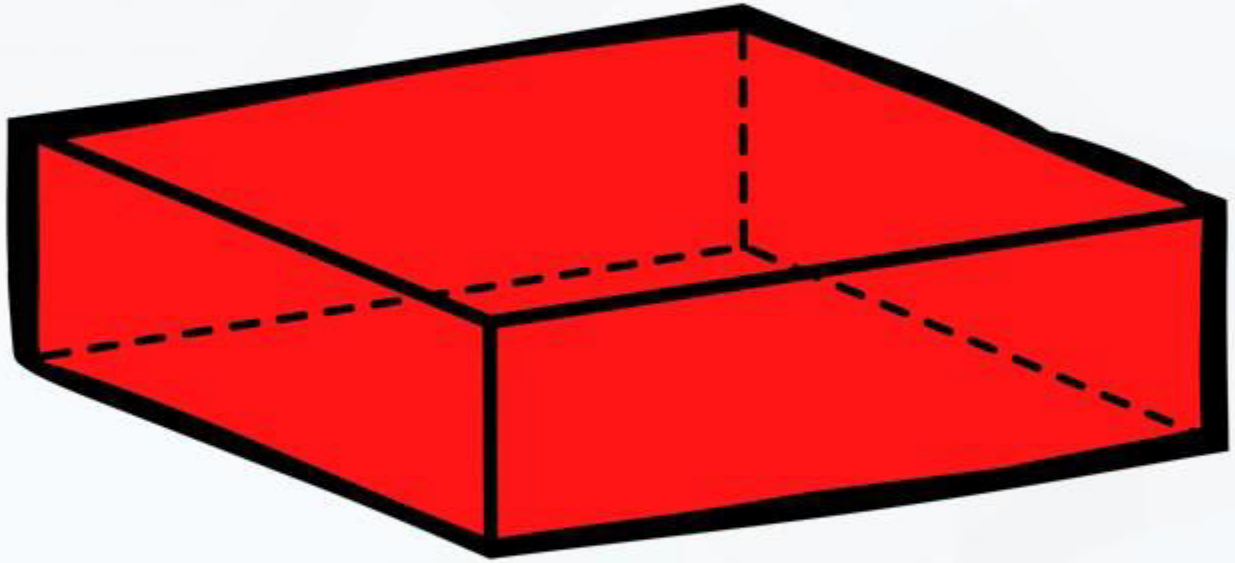
Which 2D shapes can be seen on the face of this 3D shape?



Square and triangle

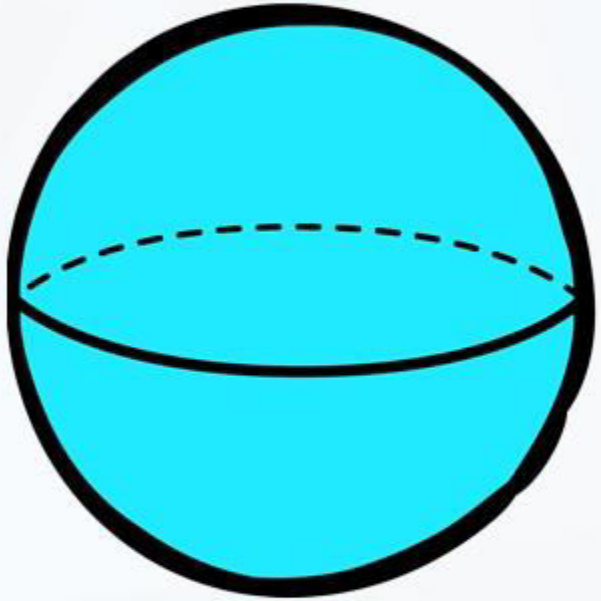
Fluency

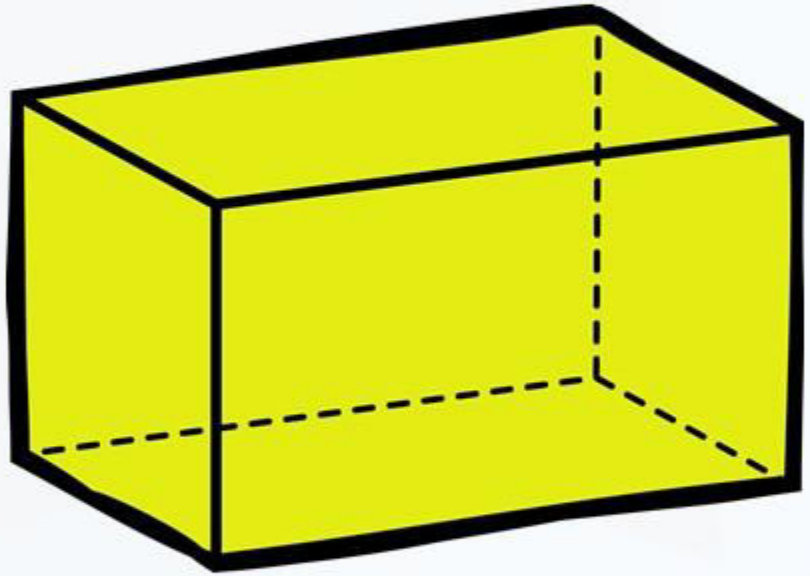
Which 2D shape can be seen on the face of this 3D shape?



rectangles

Which shape shows more than one 2D shape on its faces? Cuboid



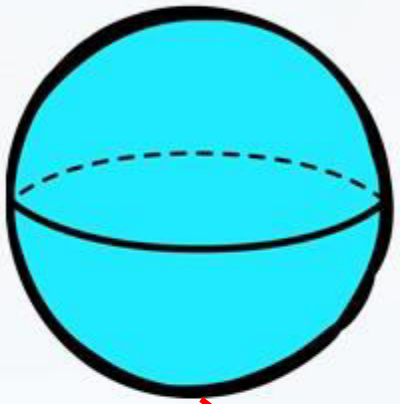


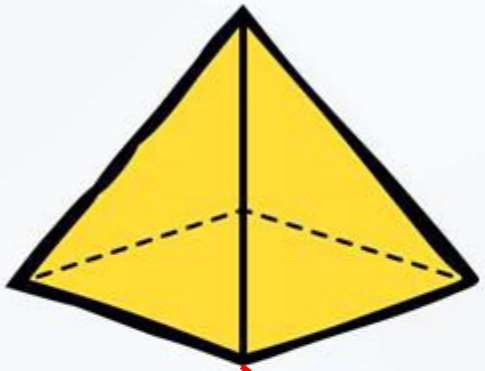
What 2D shapes are shown?

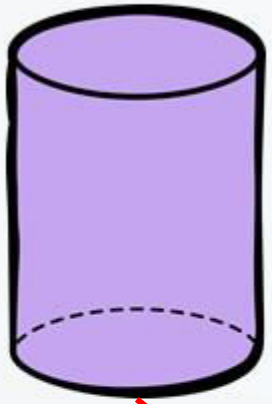
Square and rectangle.

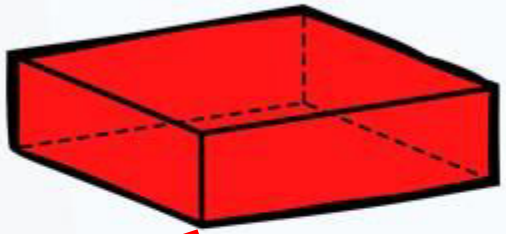
Fluency

Match the 3D shapes to the number of flat faces.





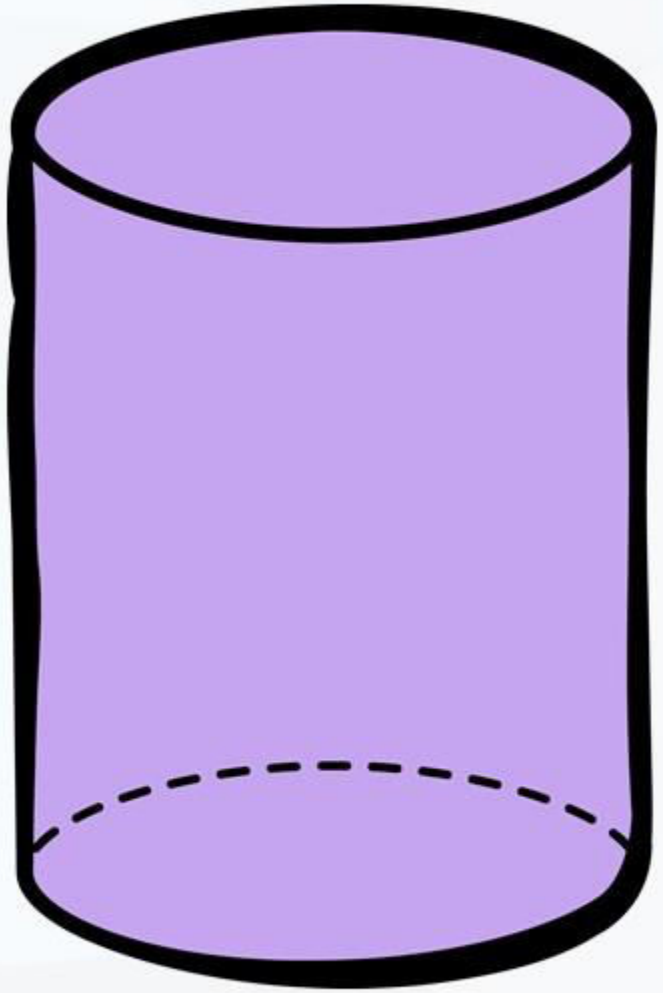




6 faces	1 curved surface	5 faces	2 faces + 1 curved surface

Fluency

Complete the sentences to describe this shape.



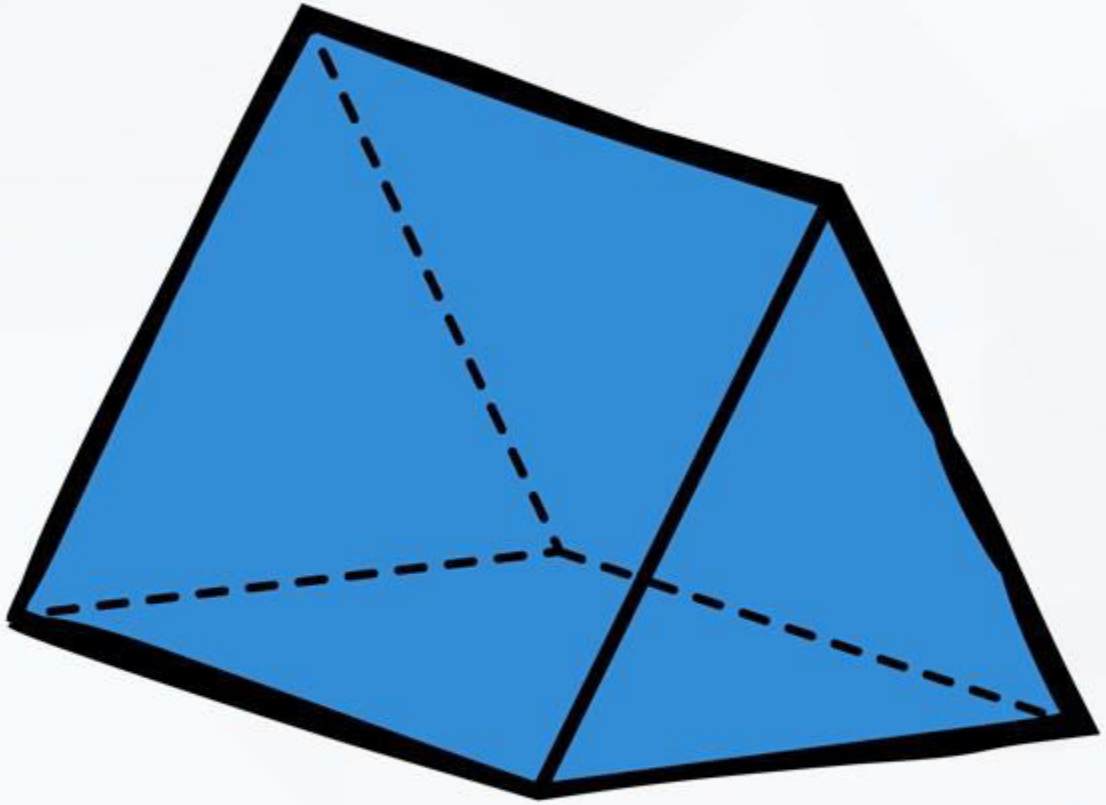
This is a cylinder.

It has 2 flat faces.

It has 1 curved surface.

Fluency

Complete the sentences to describe this shape.



This is a triangular prism.

It has 3 triangular faces.

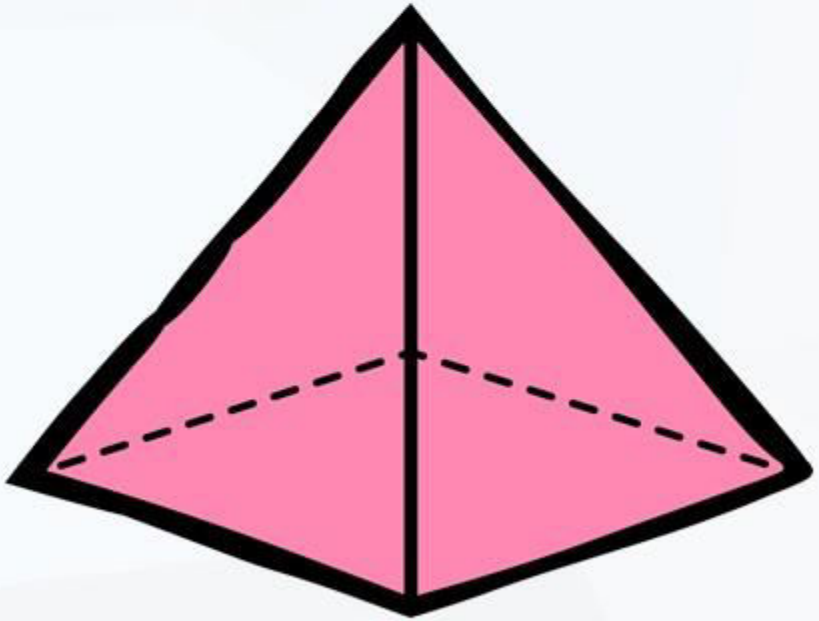
It has 3 rectangular faces.

Kat

One of the faces is a square.

I can see 4 faces on the shape.

Mo



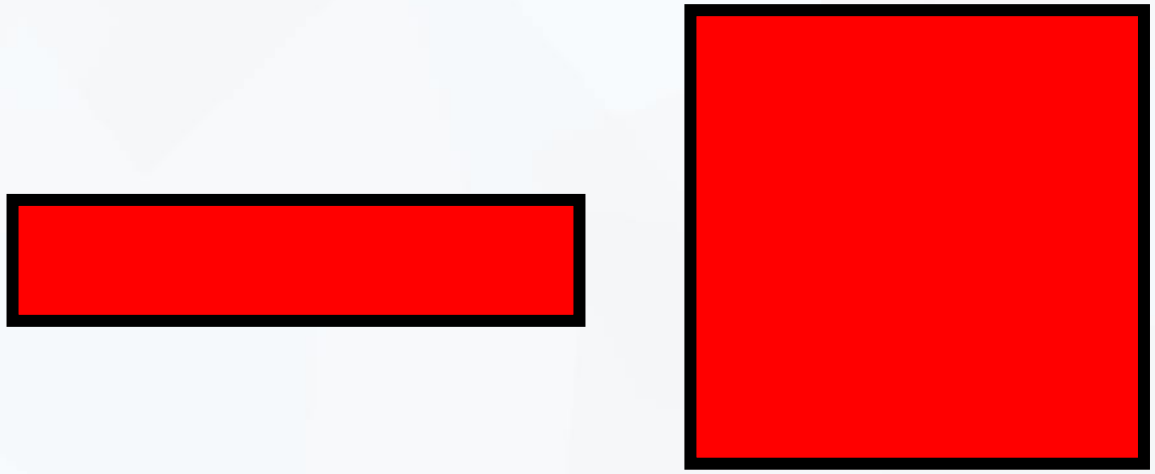
Who is correct? Explain your answer.

Kat is correct.
The surface of a pyramid is a square.

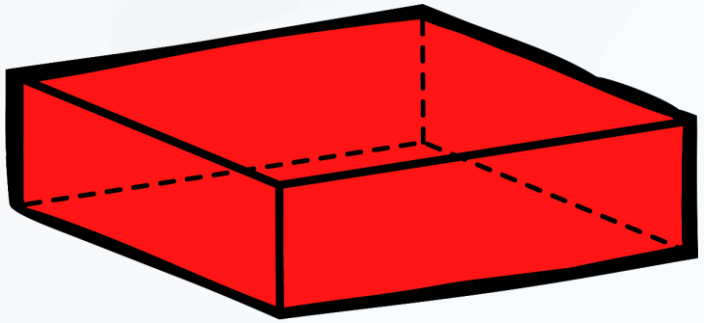
Mo is incorrect.
There are 5 faces on a pyramid (not 4).

Problem solving

Here are the 2D shapes that you can see on the faces of a 3D shape.



What shape am I?



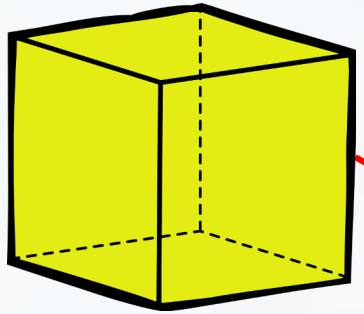
Cuboid

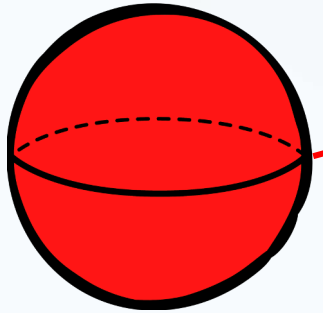
Friday
Short
Lesson 3

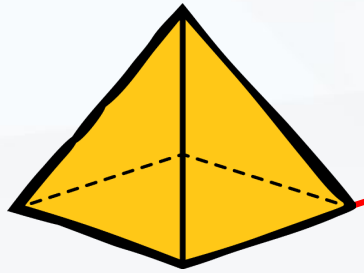
Step: Count edges on 3D shapes

Fluency

Match the 3D shape to the number of edges it has.







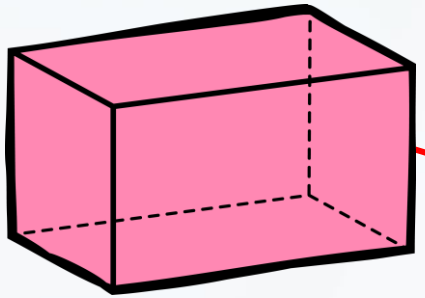
0 edges

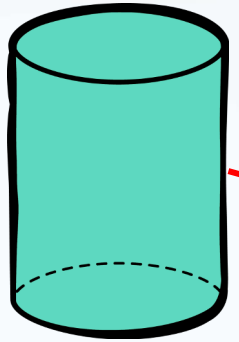
8 edges

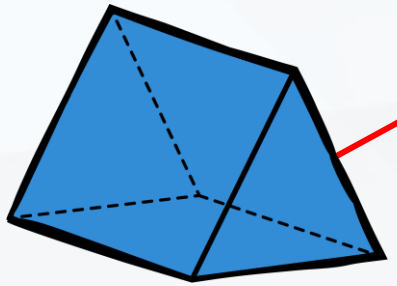
12 edges

Fluency

Match the 3D shape to the number of edges it has.







9 edges

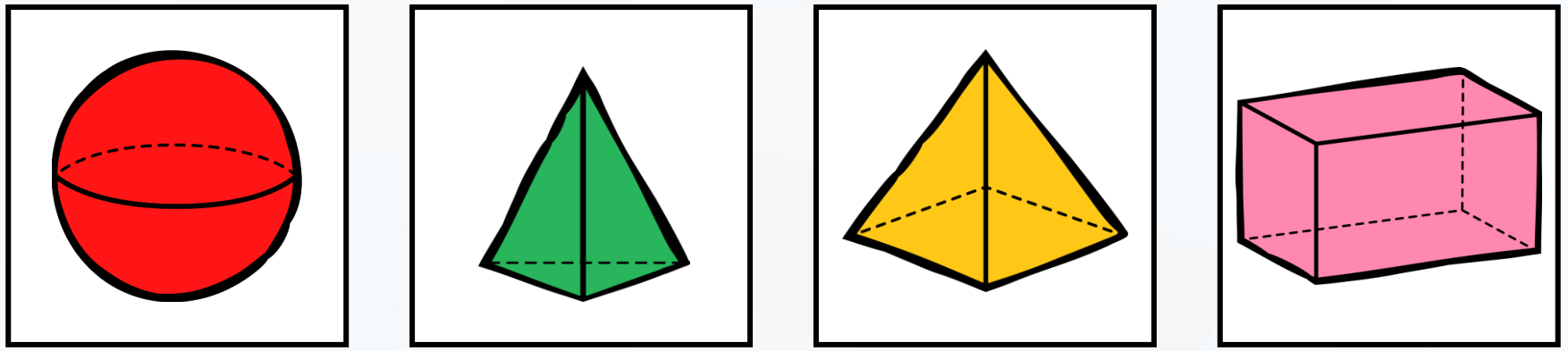
12 edges

2 edges

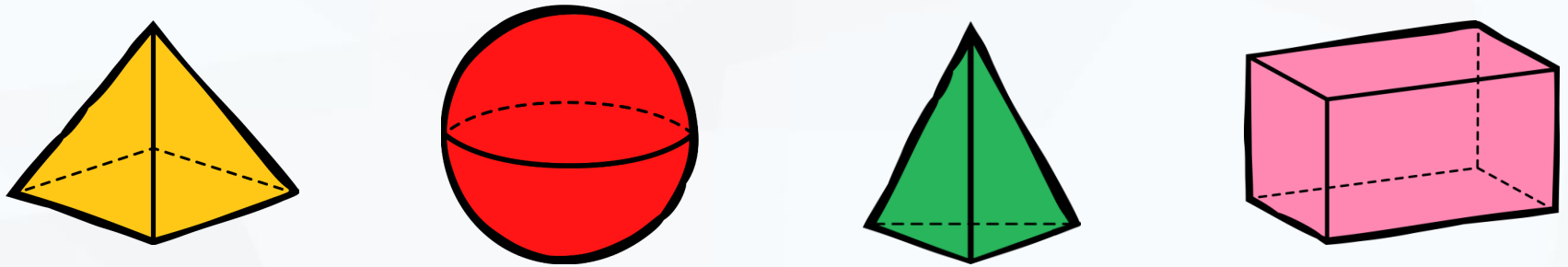
Fluency

Order the shapes from least to most based on the number of edges it has.

Least



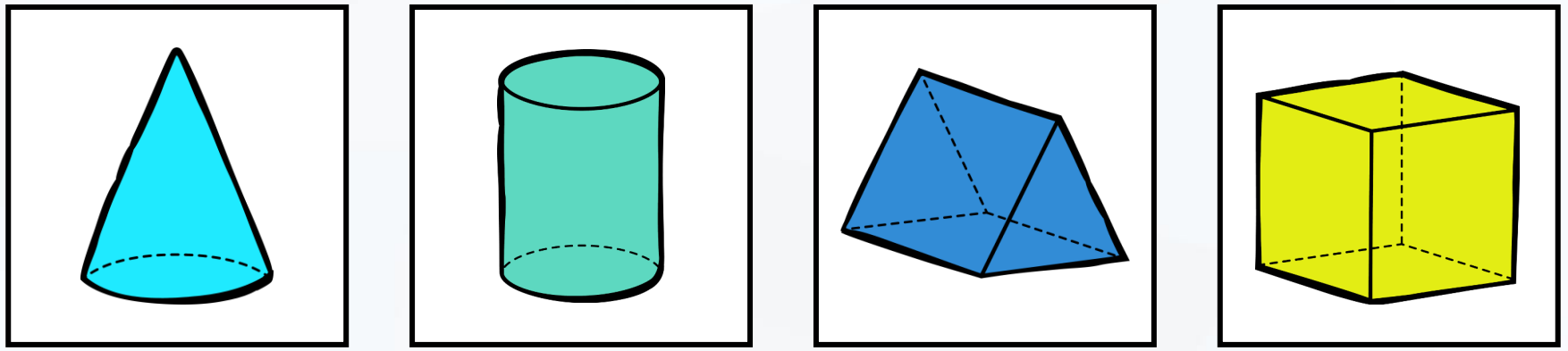
Most



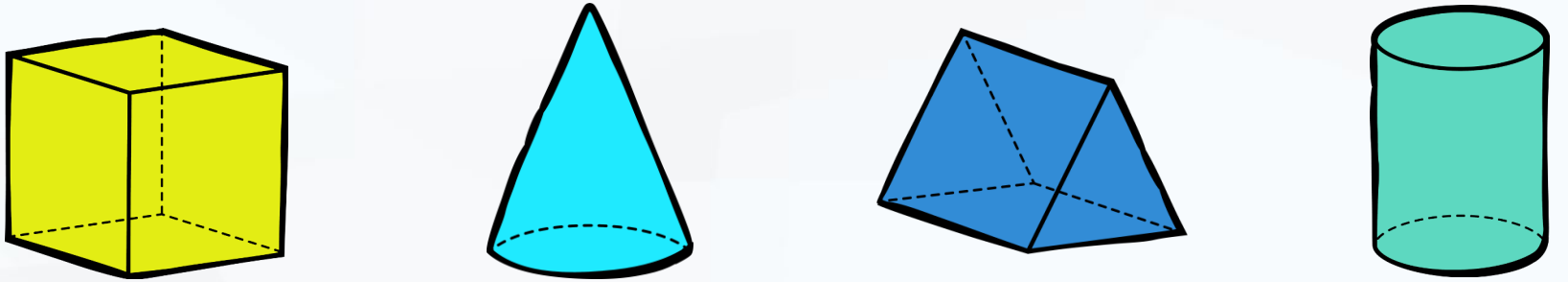
Fluency

Order the shapes from least to most based on the number of edges it has.

Least

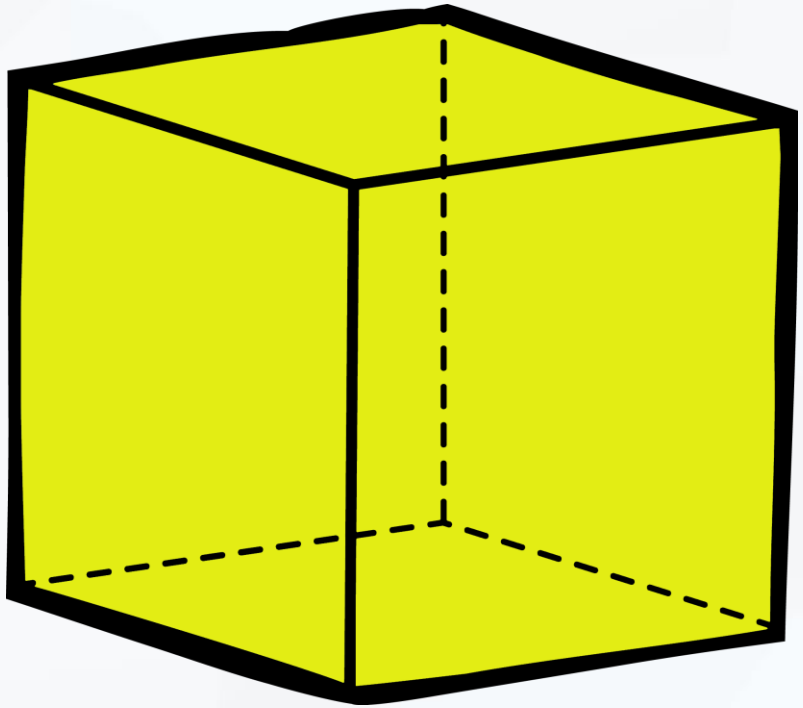


Most



Fluency

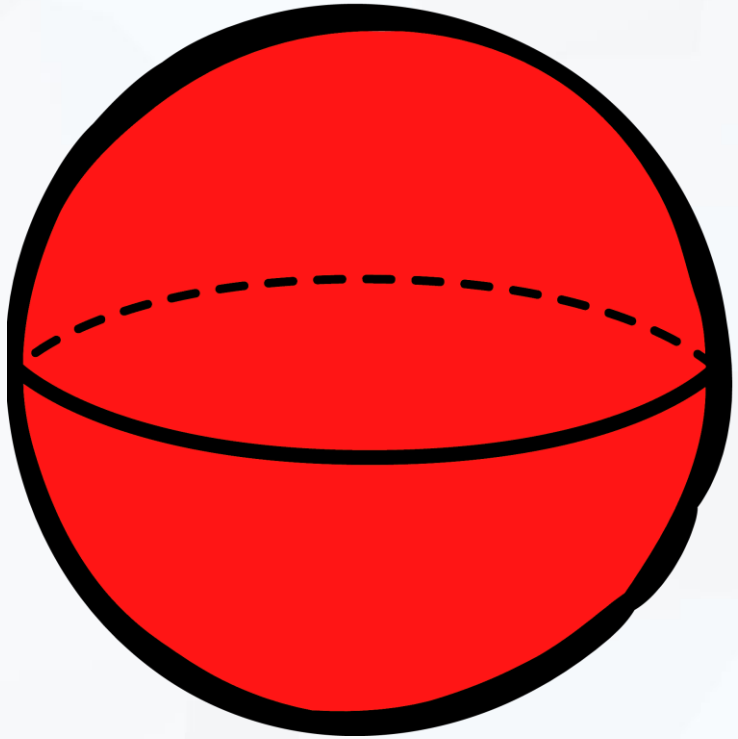
How many edges does this shape have?



A cube has 12 edges.

Fluency

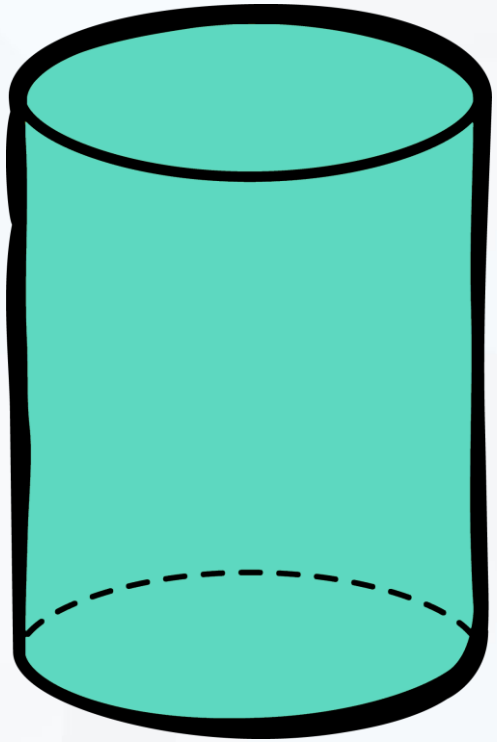
How many edges does this shape have?



A sphere has 0 edges.

Fluency

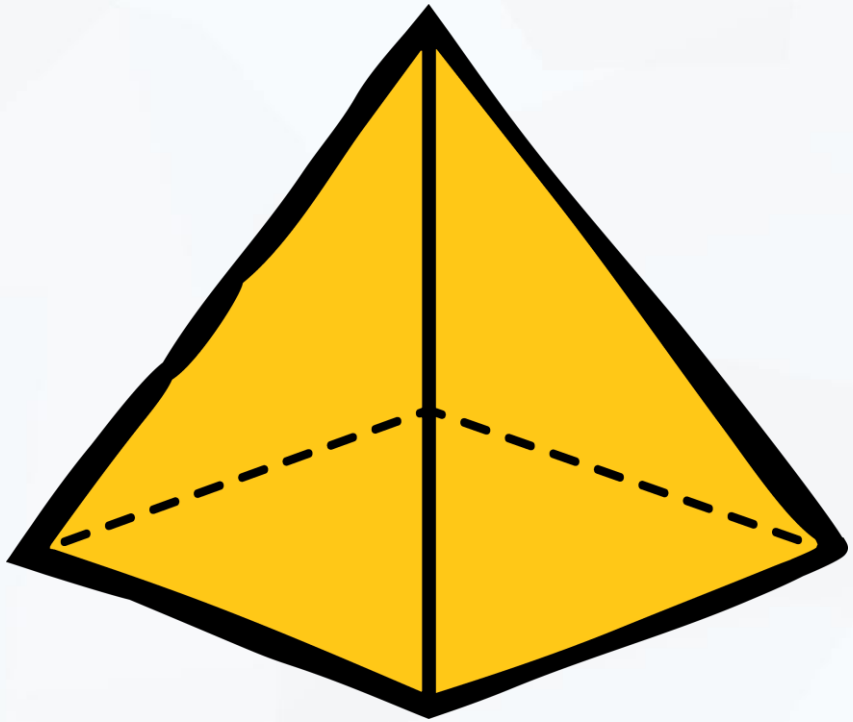
How many edges does this shape have?



A cylinder has 2 edges.

Fluency

How many edges does this shape have?



A square-based pyramid has 8 edges.

Dom says,

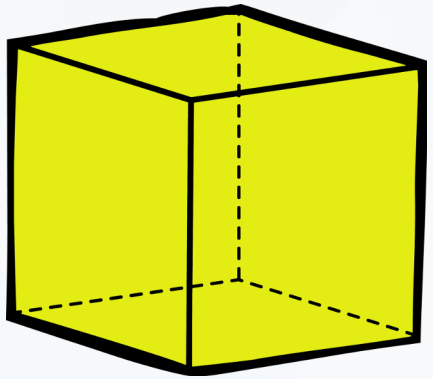
The number of edges on a cylinder is less than the number of edges on a cone.

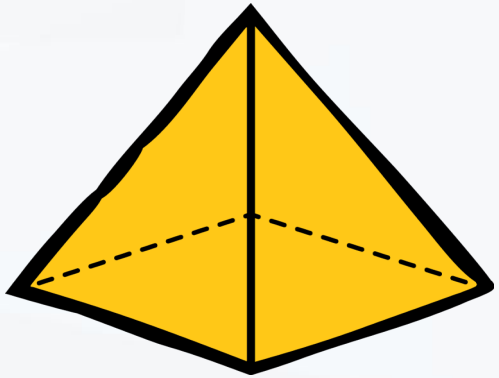
Is Dom correct?
Explain your answer.

False. A cylinder has 2 edges and a cone has 1 edge therefore, the cone has fewer edges.

Problem solving

Complete the sentence and explain your working.





The total number of combined edges on a cube and pyramid is 20.

Cube = 12 edges. Square-based pyramid = 8 edges.
12 + 8 = 20.