

Skill: I can count the vertices on a 3 D shape

Big Question

A cube and a cuboid have the same number of edges.



True

A cube and a cuboid both have 12 edges.

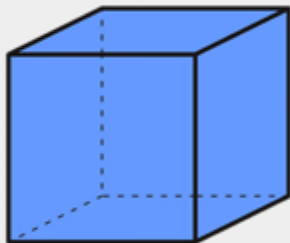
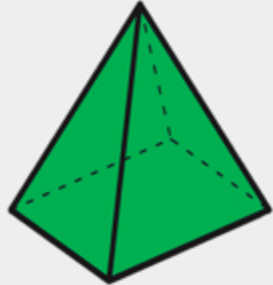
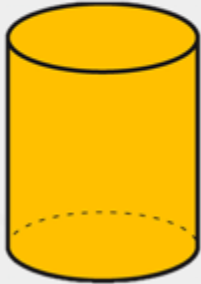
Can you practice your 5 x table with the Numberock crew?

https://www.youtube.com/watch?v=LZAqhF_2vvs



Introduction

Match each shape to the number of edges it has.



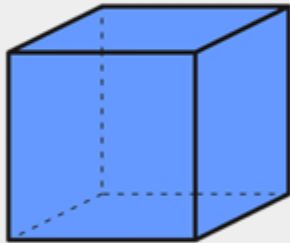
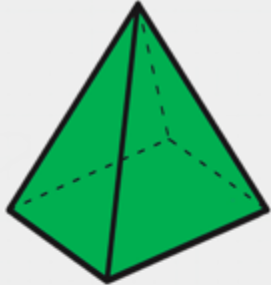
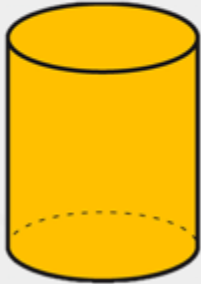
12

2

8

Introduction

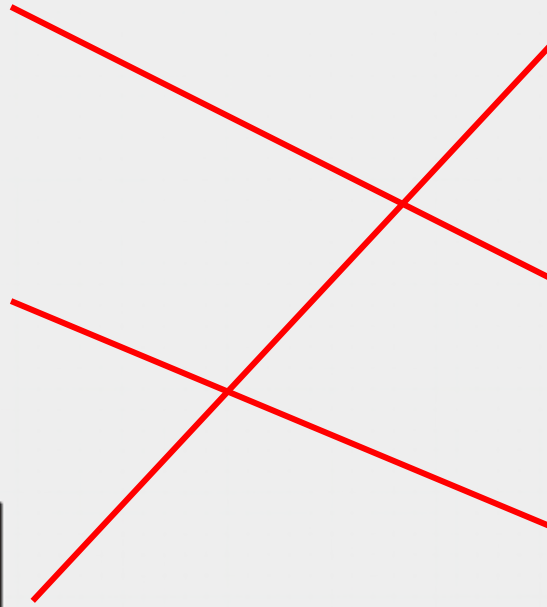
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12

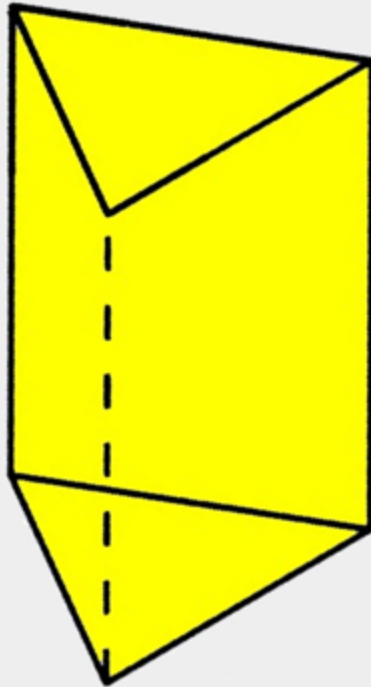
2

8



Varied Fluency 1

Circle and count the vertices on this shape.



7

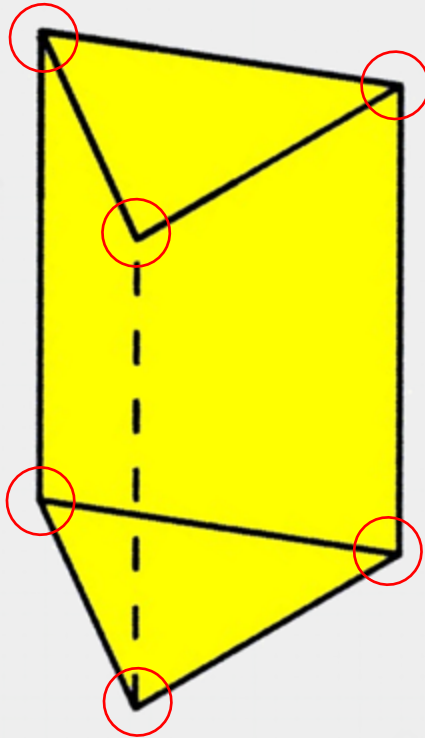
8

5

6

Varied Fluency 1

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7

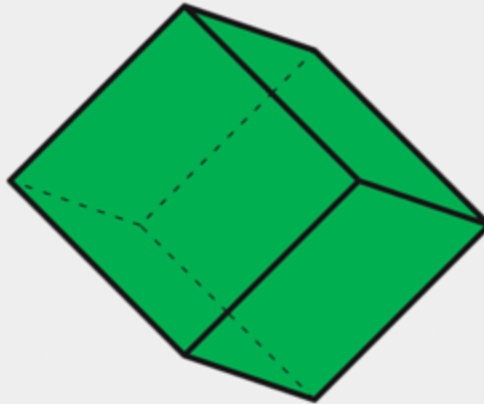
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5

6

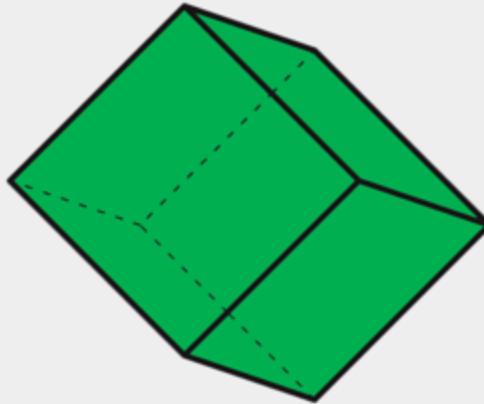
Varied Fluency 2

Which shape has fewer than 5 vertices?



Varied Fluency 2

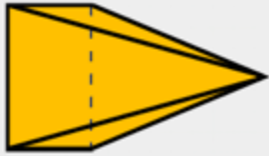
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square-based pyramid

Varied Fluency 3

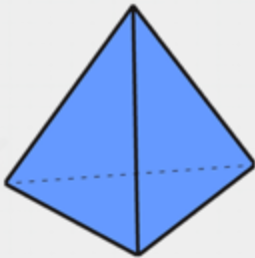
Match the shape to the number of vertices.



4



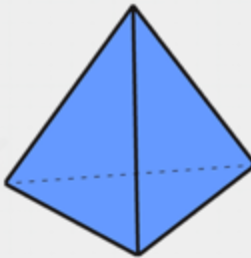
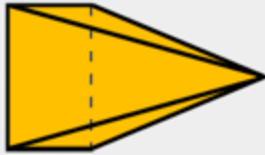
8



5

Varied Fluency 3

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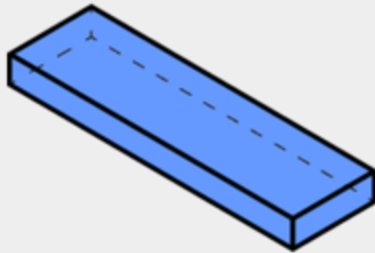
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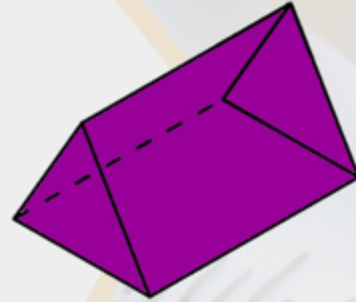
Varied Fluency 4

Circle the shape that has the same number of faces as vertices.

A.



B.



C.



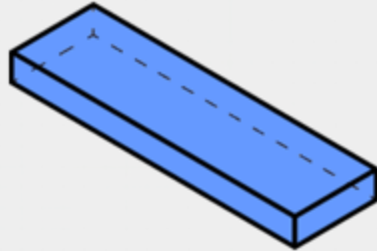
D.



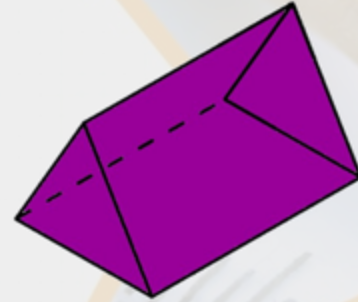
Varied Fluency 4

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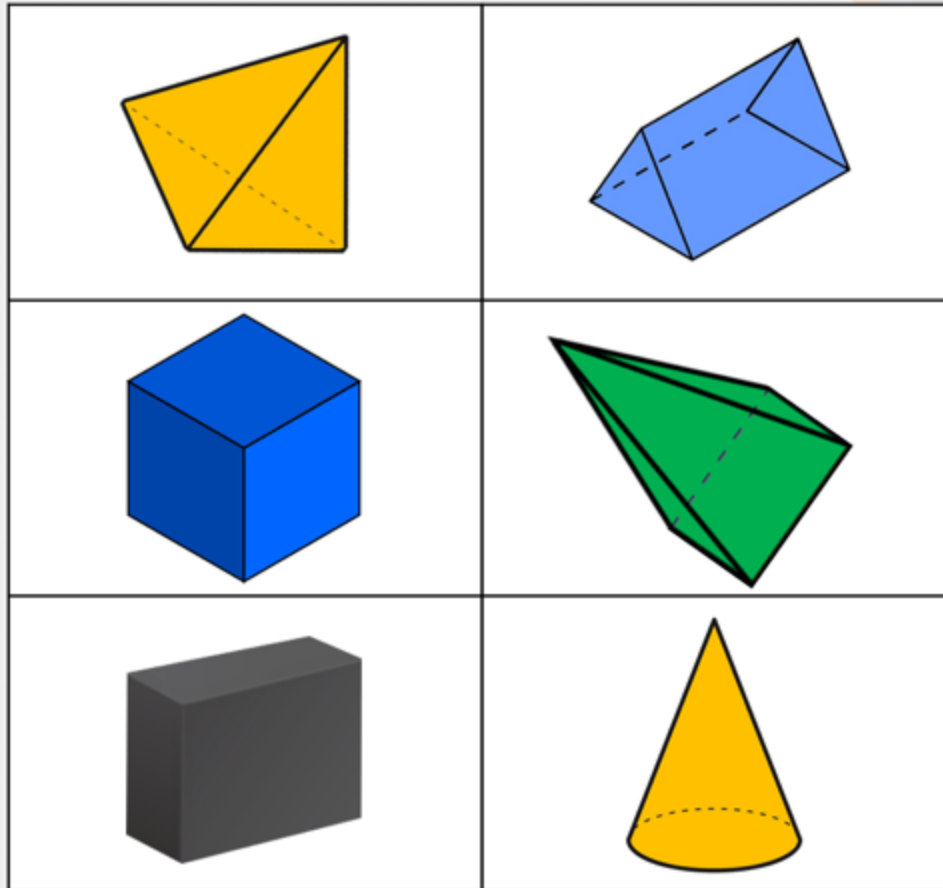


D.



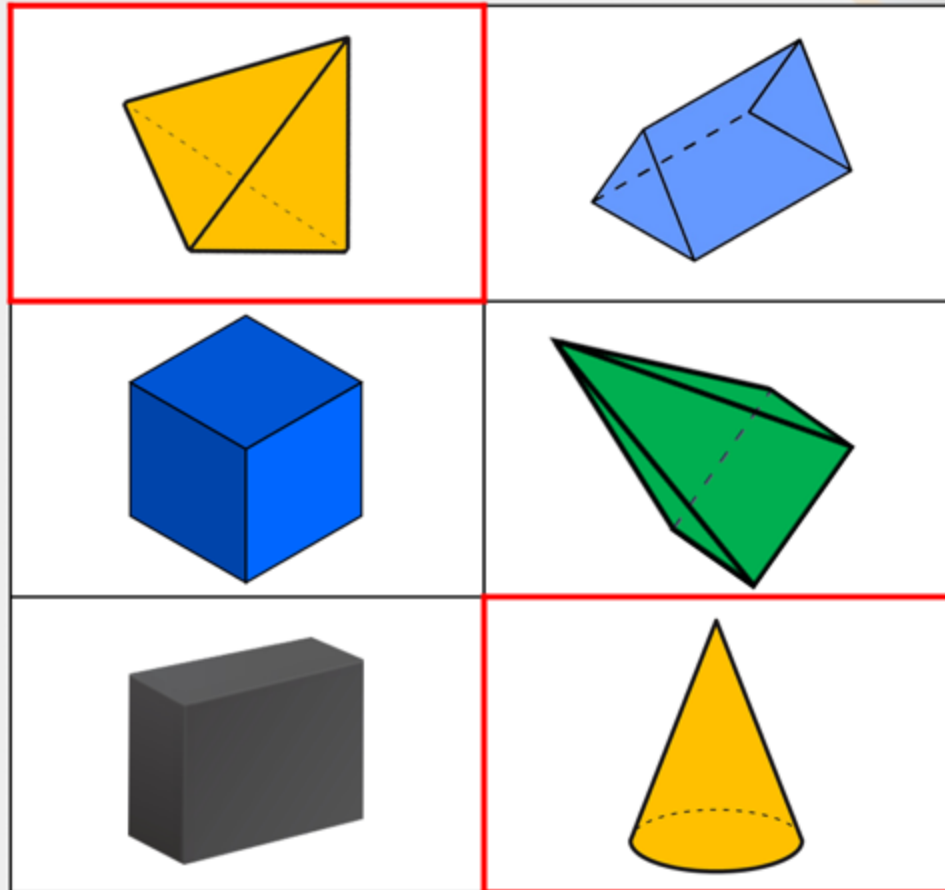
Problem Solving 1

Which two shapes have a total of 12 vertices?



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triangular-based pyramid and cube or cuboid

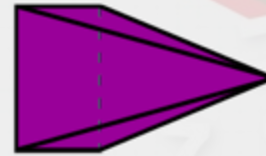
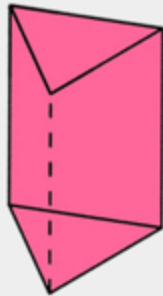
Problem Solving 2

Use the clues to find the missing shape.

I am a 3D shape.

I have more than 6 but
fewer than 10 vertices.

What am I?



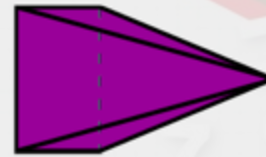
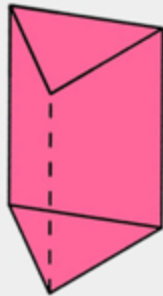
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cuboid

Reasoning 1

Pippa is counting vertices on 3D shapes.



Pippa

The shape has 8 vertices so it must be a cube.

True or false? Pippa is correct. Prove it.

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False because...

Reasoning 1

Pippa is counting vertices on 3D shapes.



Pippa

The shape has 8 vertices so it must be a cube.

True or false? Pippa is correct. Prove it.

False because it could also be a cuboid.