## Varied Fluency Step 8: Count Faces on 3D Shapes

## National Curriculum Objectives:

Mathematics Year 2: (2G2b) Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
Mathematics Year 2: (2G3) Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]

## Differentiation:

Developing Questions to support counting the number of faces on 3D shapes. All shapes presented in the same orientation and size. Perspective lines visible on all shapes. Expected Questions to support counting the number of faces on 3D shapes. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes. Greater Depth Questions to support counting the number of faces on 3D shapes. All shapes presented in different orientations and sizes. No perspective lines visible on shapes, with the use of some real-life objects.

More Year 2 Properties of Shape resources.

Did you like this resource? Don't forget to review it on our website.

1a．Circle the shape with 6 faces．


2a．Tick the shape below that has a curved surface．


3a．Complete the sentence below． This shape has $\square$ flat faces and
$\square$ curved surfaces．

4a．Which 2D shapes can you see on the flat faces of the 3D shape？


2b．Tick the shape below that has flat faces．


## 向

3b．Complete the sentence below．

$\square$

4b．Which 2D shapes can you see on the flat faces of the 3D shape？


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5a. Circle the shape with 5 faces.
A.

C.

B.

D.


5b. Circle the shape with 2 faces.
A.

C.

B.

D.


6a. Tick the shape below that has 2 flat faces and 1 curved surface.


7a. Complete the sentence below. This shape has $\square$ flat faces and
$\square$ curved surfaces.


8a. Which 2D shapes can you see on the flat faces of the 3D shapes?
A.

1

B.

2

C.

3



6b. Tick the shape below that has 6 flat faces and 0 curved surfaces.


7b. Complete the sentence below. This shape has $\square$ flat faces and


8a. Which 2D shapes can you see on the flat faces of the 3D shapes?
A.

1

B.

2

C.

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9a. Circle the shapes with 6 faces.


10a. Tick the two shapes that combined have a total of 7 flat faces.


11a. Complete the sentence below.

$\square$ curved surface.

9a. Circle the shape with 5 faces.
A

B

C

D


10b. Tick the two shapes that combined have a total of 7 flat faces.


11b. Complete the sentence below.
This shape has $\square$ flat faces and
$\square$ curved surfaces.


12b. Which 2D shapes can you see on the flat faces of the 3D shapes?
A.

B.

C.

1


2 $\square$
3
$\square$

# Varied Fluency Count Faces on 3D Shapes 

## Developing

1a. C
2a. cylinder
3a. The shape has 6 flat faces and 0 curved surfaces.
$4 a$. square and triangle

## Expected

5a. D
6a. cylinder
7 a . The shape has 5 flat faces and 0 curved surfaces.
8a. A = square; B = triangle; C = circle

## Greater Depth

9a. A and D
10a. triangular prism and cylinder
11a. The shape has 1 flat face and 1 curved surface.
12a. $A=$ triangle and rectangle; $B=$ rectangle; C = circle

## Developing

1b. B
2b. trianglular-based pyramid
3b. The shape has 2 flat faces and 1 curved surface.
4b. square and rectangle

## Expected

5b. C
6b. cube
7b. The shape has 6 flat faces and 0 curved surfaces.
8b. $\mathrm{A}=$ circle; $\mathrm{B}=$ triangle and rectangles;
C = circle

## Greater Depth

9b. C
10b. cone and cuboid
11b. The shape has 6 flat faces and 0 curved surfaces.
12b. $\mathrm{A}=$ triangle or triangle and square; B = rectangle; $C=$ rectangle and triangle

