Arithmetic

1. 10 + 10 + 10
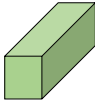
2. $\frac{1}{2}$ of ? = 7

3. ? = 3 x 10

4. 100 - ? = 40

Practice: Properties of 3D Shapes

5. Complete the table.

Shape	Number of Faces	Number of Edges	Number of Vertices

6. Order the shapes from fewest to most faces.
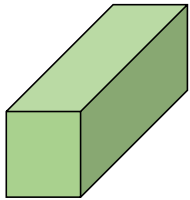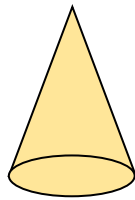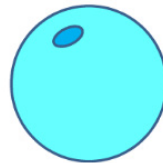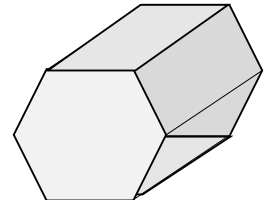
| A | B | C | D | E |

fewest [ ] [ ] [ ] [ ] [ ] most

7. Circle the shape with the most edges.
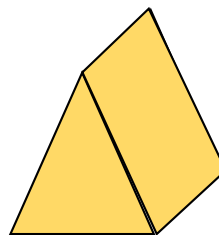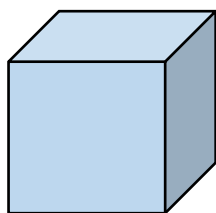
You might want
to talk to an adult

Use resources
to help you

Spot the mistake

8. What shape are the faces on a cube?

9. How are faces on 3D shapes linked to 2D shapes?

10. There are 3 faces on a cube.

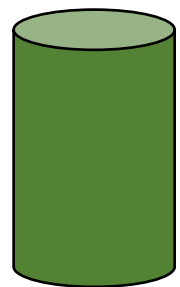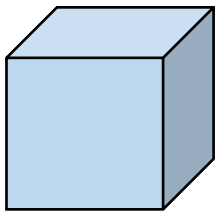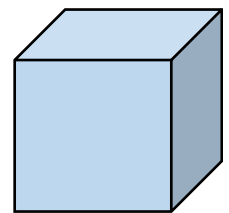Is this right?

Explain your answer.

Challenge

11. Abi says her shape has 6 faces, 8 vertices and 12 edges.

What could Abi's shape be?

How do you know?

Answers

Q no.	Question	Answer
1	10 + 10 + 10	30
2	$\frac{1}{2}$ of ? = 7	14
3	? = 3 x 10	30
4	100 - ? = 40	60
5	Complete the table.	Cube - 6, 12, 8 Cylinder - 3, 2, 0 Cuboid - 6, 12, 8
6	Order the shapes from fewest to most faces.	Sphere (1), cone (2), pyramid (5), cuboid (6), prism (8) D, B, C, A, E
7	Circle the shape with the most edges.	Circle cube.
8	What shape are the faces on a cube?	Square.
9	How are faces on 3D shapes linked to 2D shapes?	Faces on 3D shapes are described using 2D shapes. For example, the faces on a cube are squares.
10	There are 3 faces on a cube. Is this right? Explain your answer.	This is incorrect. Pupils may believe there are 3 faces on a cube as that is all they can see in the picture. A cube has 6 faces.
11	Abi says her shape has 6 faces, 8 vertices and 12 edges. What could Abi's shape be? How do you know?	Abi could have a cube or a cuboid. Both the 3D shapes have the same properties. Pupils may attempt to draw a cube or a cuboid to explain their answer.