The Cube

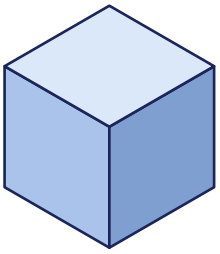
MathApex

Name: _____ Date: _____

Watch video

From the video A cube has 6 faces, 8 corners and 12 edges → **4 + 4 + 4 = 12 edges**

1 Now it's your turn!



How many edges does a cube have?

Count: 4 edges on top, 4 on the bottom, 4 stand upright.

☐ + ☐ + ☐

= ☐ edges

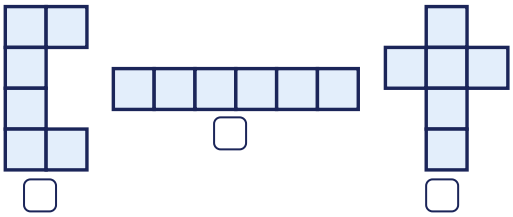
2 Corners, edges, faces.

Fill in the table. A cuboid looks like a cube, but with rectangles.

	Corners	Edges	Faces
Cube	☐	☐	☐
Cuboid	☐	☐	☐

3 Cube nets.

Which nets can be folded into a cube? Tick them.



4 Opposite.

Opposite faces add up to 7. Which number is on the bottom?



bottom: ☐ bottom: ☐ bottom: ☐

5 Reading a building plan.

How many cubes does the building have?

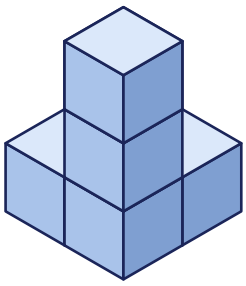


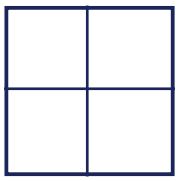
☐ + ☐ + ☐ + ☐ = ☐ cubes

★ Brain teaser

A cube building has three layers: 6 cubes at the bottom, 3 in the middle, 1 on top. How many cubes are there? And how many are missing to reach 30?

6 Write the building plan. How many cubes are on each square?



→ 

Front left is the bottom left square in the plan.

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MATH STORY 56 · ANSWERS

The Cube

Watch video

1 Now it's your turn!

4 + 4 + 4 = 12 edges

2 Corners, edges, faces.

Cube: 8 corners, 12 edges, 6 faces

Cuboid: 8 corners, 12 edges, 6 faces

Both have the same numbers – only the faces of the cuboid are rectangles.

3 Cube nets.

Net 1: yes Net 2: no Net 3: yes

4 Opposite.

top 5 → bottom 2

top 6 → bottom 1

top 2 → bottom 5

5 Reading a building plan.

2 + 1 + 3 + 1 = 7 cubes

★ Brain teaser

6 + 3 + 1 = 10 cubes, 20 are missing.

6 Building plan.

2	1
1	3

7 cubes altogether

For parents and teachers: This worksheet goes with the video "The Cube" (Math Story 56, Grade 4). Cubes and cuboids: counting corners, edges and faces, checking nets, matching building plans and buildings. A real cube to hold helps.

More Math Stories with video and worksheet: **www.mathapex.app/en/math-stories/**