Cube Nets

MathApex

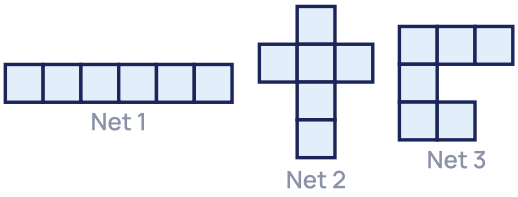
Name: _____ Date: _____

Watch video

From the video A cube net has 6 squares that fold into a cube → **Net 2**

1 Now it's your turn!

Which net makes a cube: 1, 2 or 3?



Tick: ☐ Net 1 ☐ Net 2 ☐ Net 3

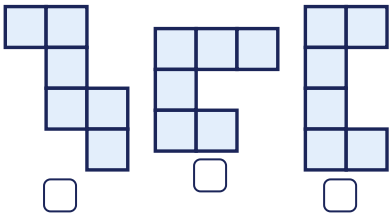
2 Corners, edges, faces.

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?

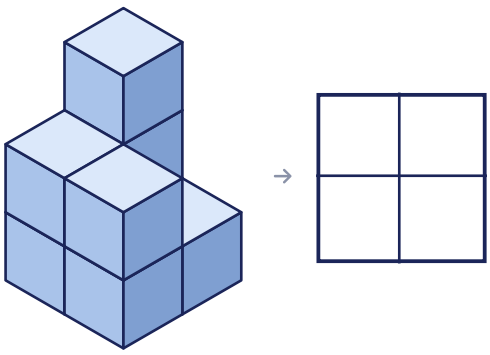


☐ + ☐ + ☐ + ☐ = ☐ **cubes**

Brain teaser

A cube building has three layers: 16 cubes at the bottom, 9 in the middle, 4 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.

Cube Nets

Watch video

1 Now it's your turn!

Net 2

Net 1 is one long row (six squares in a line do not fold into a cube), net 3 overlaps when folded.

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 3 → bottom 4

top 2 → bottom 5

top 1 → bottom 6

5 Reading a building plan.

2 + 1 + 3 + 1 = 7 cubes

★ Brain teaser

16 + 9 + 4 = 29 cubes, 1 are missing.

6 Building plan.

3	1
2	2

8 cubes altogether

For parents and teachers: This worksheet goes with the video "Cube Nets" (Math Story 58, 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/**