



Opposite Faces of a Dice

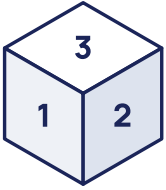
MathApex

Name: _____

Date: _____



Watch video

From the videoOpposite faces of a dice add up to 7: 2 on top → $7 - 2 = 5$ on the bottom**1 Now it's your turn!**

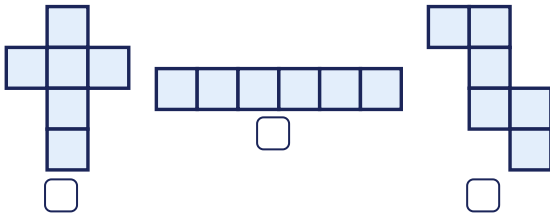
The 3 is on top. Which number is on the bottom?

Opposite faces always add up to 7.

$7 - 3 = \square$

3 Cube nets.

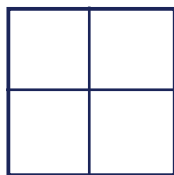
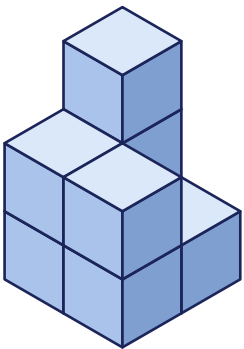
Which nets can be folded into a cube? Tick them.

**5 Reading a building plan.**

How many cubes does the building have?

2	1
3	1

$\square + \square + \square + \square = \square \text{ cubes}$

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

Front left is the bottom left square in the plan.

2 Corners, edges, faces.

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

	Corners	Edges	Faces
Cube			
Cuboid			

4 Opposite.

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

bottom: bottom: bottom: **Brain teaser**

A cube building has three layers: 9 cubes at the bottom, 4 in the middle, 1 on top. How many cubes are there? And how many are missing to reach 30?



Opposite Faces of a Dice



Watch video

1 Now it's your turn!

$$7 - 3 = 4$$

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 4 →
bottom 3top 6 →
bottom 1top 2 →
bottom 5**5** Reading a building plan.

$$2 + 1 + 3 + 1 = 7 \text{ cubes}$$

★ Brain teaser

$$9 + 4 + 1 = 14 \text{ cubes, 16 are missing.}$$

6 Building plan.

3	1
2	2

8 cubes altogether

For parents and teachers: This worksheet goes with the video "Opposite Faces of a Dice" (Math Story 82, 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/