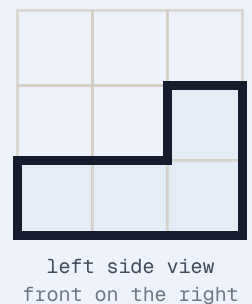
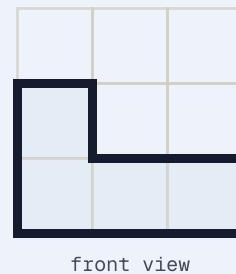
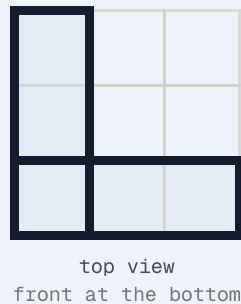
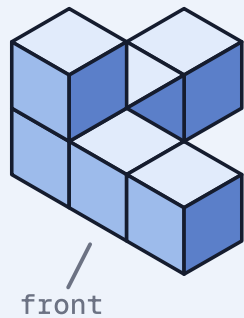


3D Spatial Reasoning Puzzles

6 draw-it puzzles and 6 quick questions, with answers. By Milo Marwick.

How to read the views



Top view: looking down. The front is at the bottom.

Front view: looking from the front, where the arrow points.

Left side view: looking from the left. The front is on the right.

Thick lines mark every change of depth. No line means one flat face.

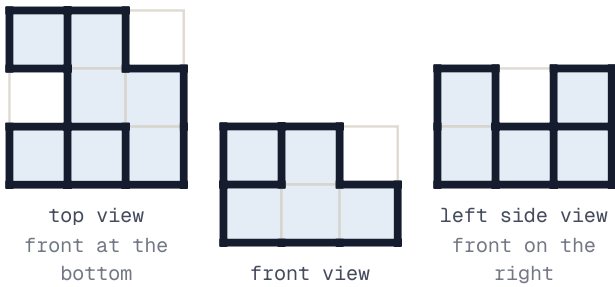
Hidden means solid: if the views cannot show whether a cube is there, it is there.

Every puzzle has exactly one answer, checked by computer.

Play a new set free every day at milomarwick.com/3d-spatial-reasoning-puzzles. More puzzles like these: [THINK IN 3D on Amazon](#)

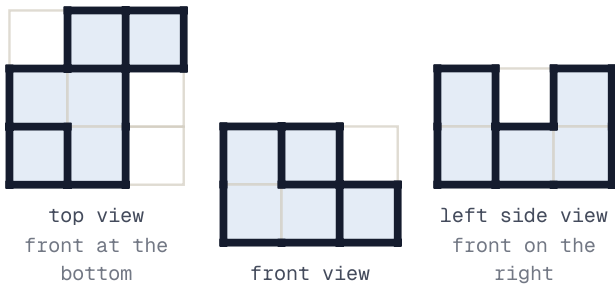
DRAW IT: REBUILD THE SOLID FROM ITS THREE VIEWS

Puzzle 1 Easy: 3 × 3 footprint, up to 2 cubes high



Draw the solid here. How many cubes? _____

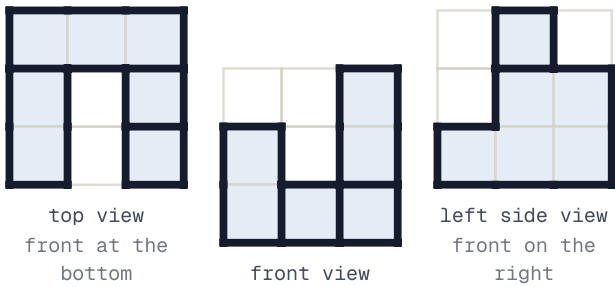
Puzzle 2 Easy: 3 × 3 footprint, up to 2 cubes high



Draw the solid here. How many cubes? _____

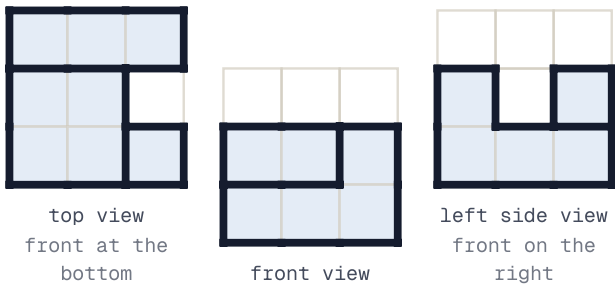
DRAW IT: REBUILD THE SOLID FROM ITS THREE VIEWS

Puzzle 3 Medium: 3 × 3 footprint, up to 3 cubes high



Draw the solid here. How many cubes? _____

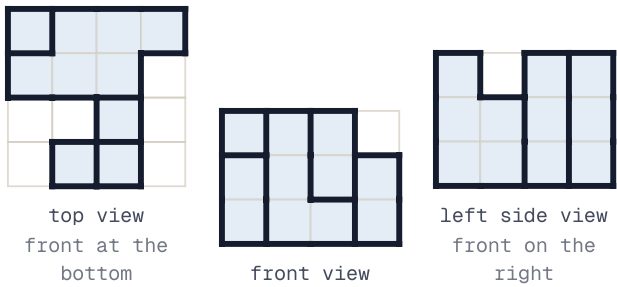
Puzzle 4 Medium: 3 × 3 footprint, up to 3 cubes high



Draw the solid here. How many cubes? _____

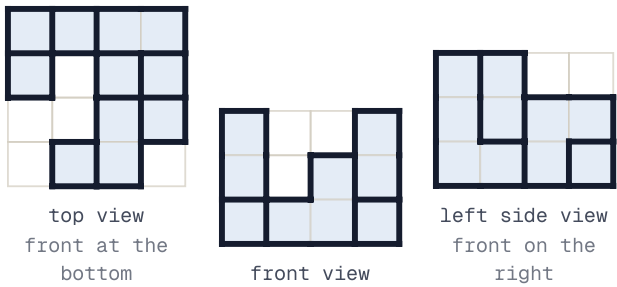
DRAW IT: REBUILD THE SOLID FROM ITS THREE VIEWS

Puzzle 5 Hard: 4 × 4 footprint, up to 3 cubes high



Draw the solid here. How many cubes? _____

Puzzle 6 Hard: 4 × 4 footprint, up to 3 cubes high

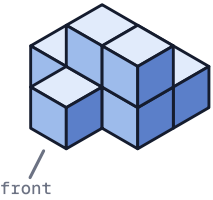


Draw the solid here. How many cubes? _____

QUICK QUESTIONS

Question 1 Which view?

Which picture is the front view of this solid?



A

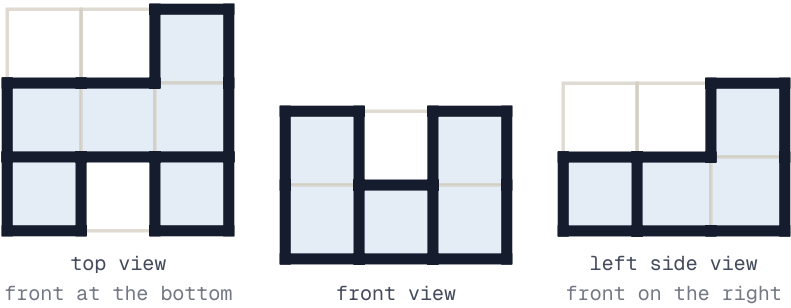
B

C

D

Question 2 Which solid?

Which solid has all three of these views?



A

B

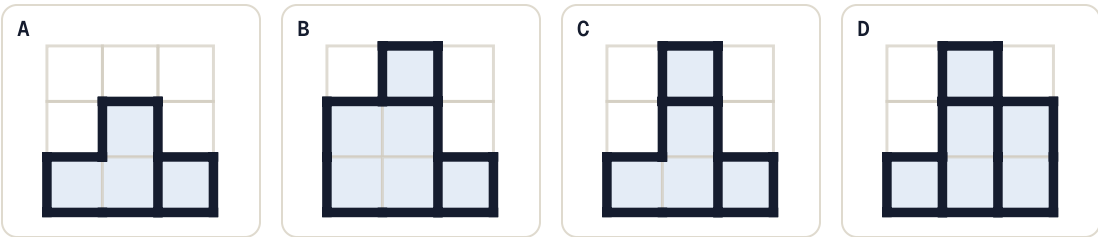
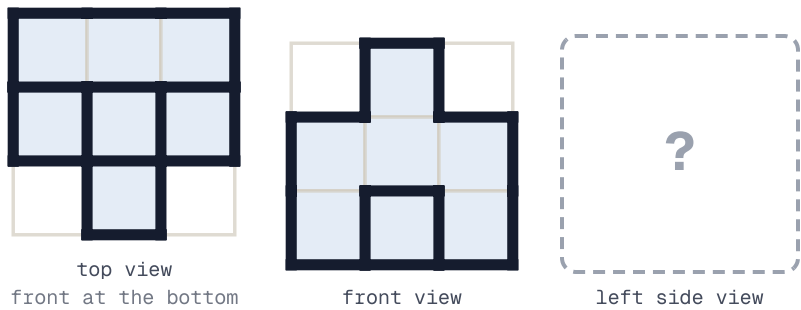
C

D

QUICK QUESTIONS

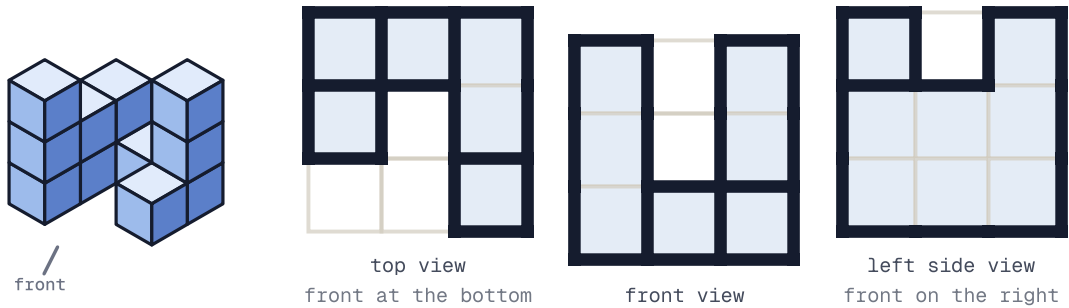
Question 3 Missing view

Two views of a solid are shown. Which one is its left side view?



Question 4 Find the mistake

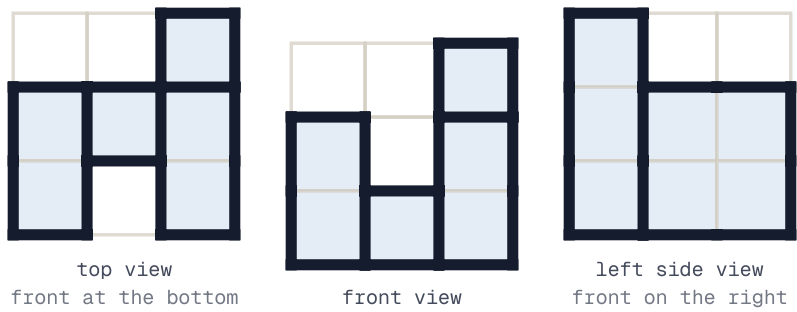
One of these three views is drawn wrong. Which one?



QUICK QUESTIONS

Question 5 Which solid?

Which solid has all three of these views?



A

front

B

front

C

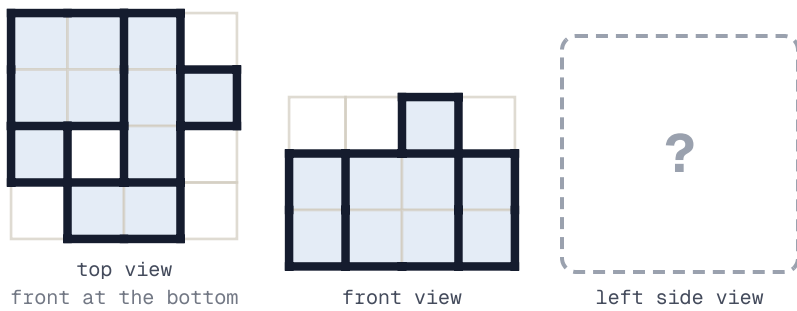
front

D

front

Question 6 Missing view

Two views of a solid are shown. Which one is its left side view?



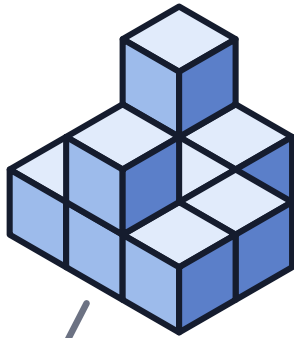
A

B

C

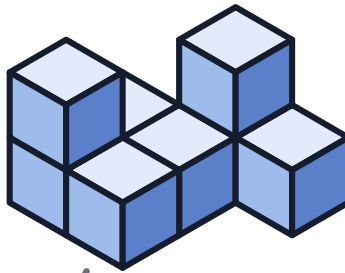
D

ANSWERS



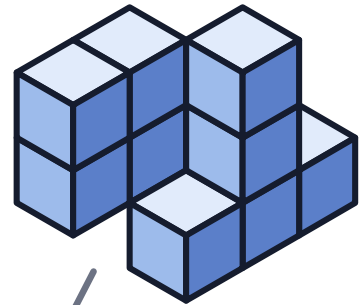
front

Puzzle 1: 9 cubes



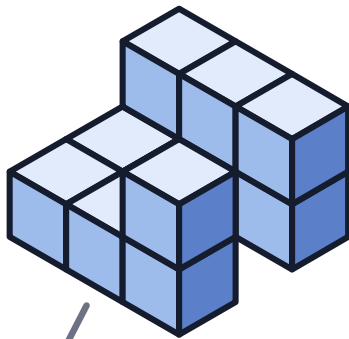
front

Puzzle 2: 8 cubes



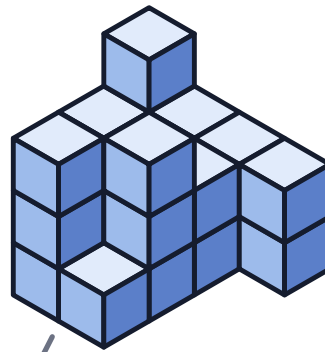
front

Puzzle 3: 11 cubes



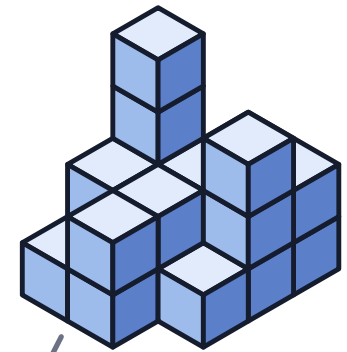
front

Puzzle 4: 12 cubes



front

Puzzle 5: 22 cubes



front

Puzzle 6: 19 cubes

Question 1: C. This is the front view.

Question 2: D. All three views match.

Question 3: C. The only left side view that fits the other two views.

Question 4: A. The top view doesn't match the solid.

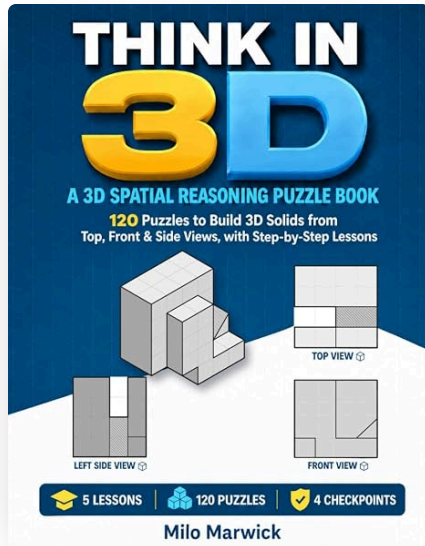
Question 5: D. All three views match.

Question 6: D. The only left side view that fits the other two views.

ENJOYED THESE?

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