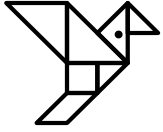


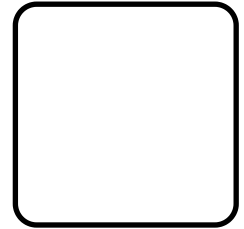
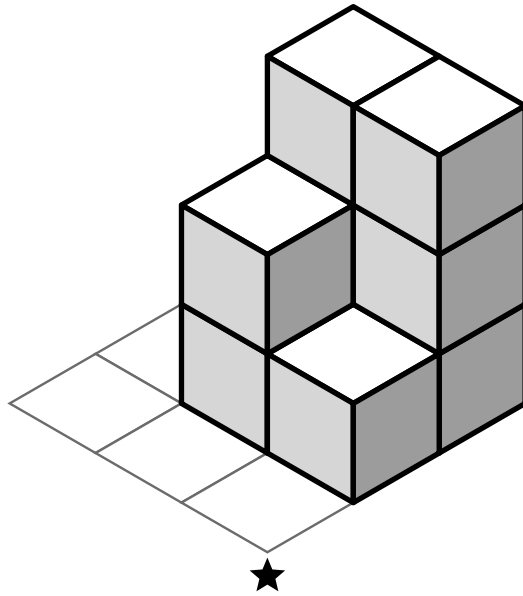


Learn a new puzzle

Count the Cubes

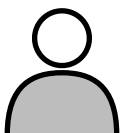


How many cubes? Count the hidden ones too.



cubes

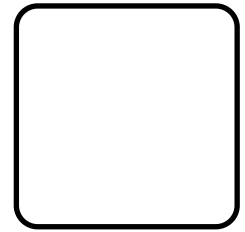
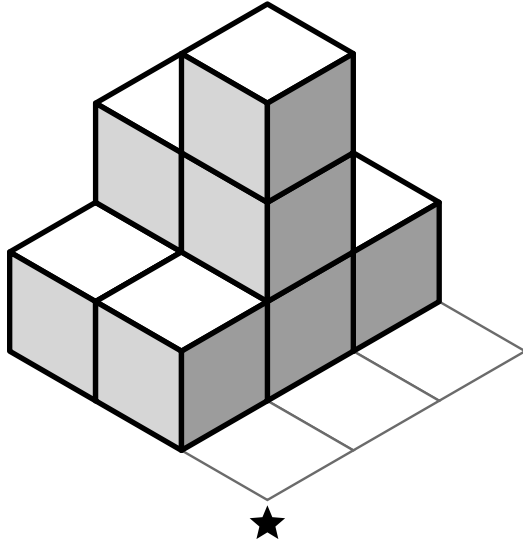
- 1 Count layer by layer: the bottom layer first.
- 2 A cube on top must stand on a cube below it.
- 3 Add up the layers.



How many cubes are in the bottom layer?

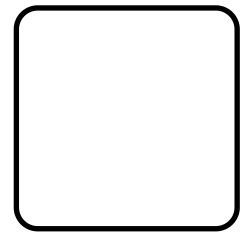
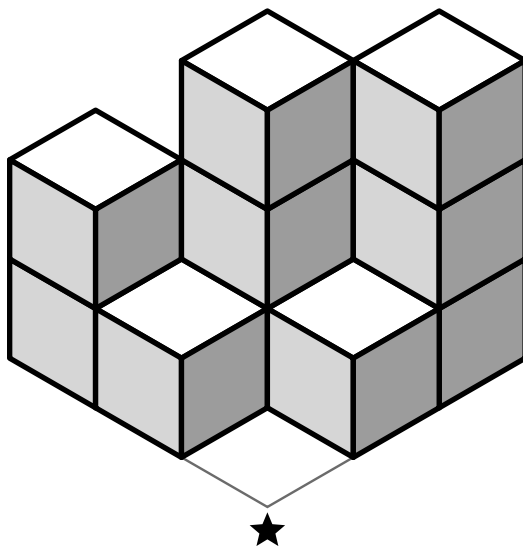


- ① **Count the Cubes** How many cubes? Count the hidden ones too.



cubes

- ② **Count the Cubes** How many cubes? Count the hidden ones too.

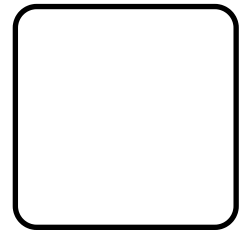
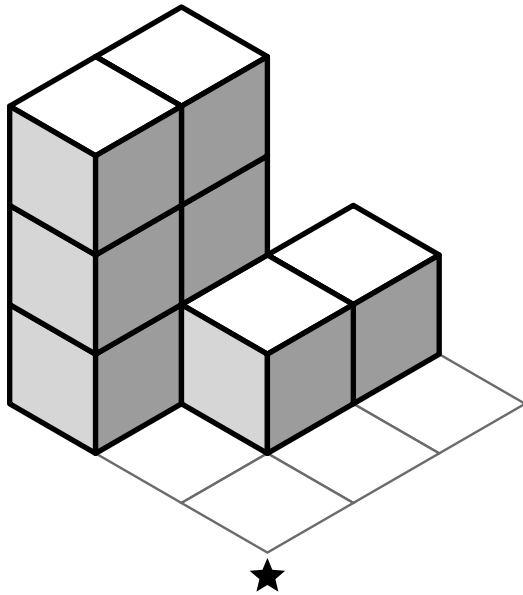


cubes



3

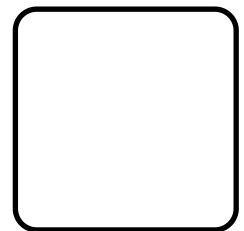
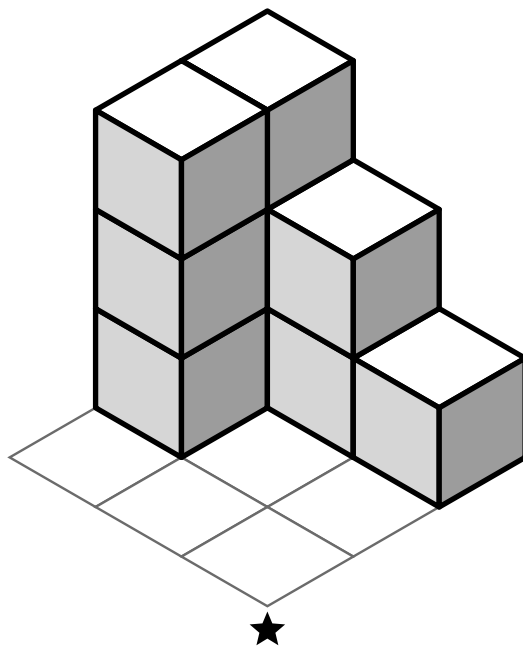
Count the Cubes How many cubes? Count the hidden ones too.



cubes

4

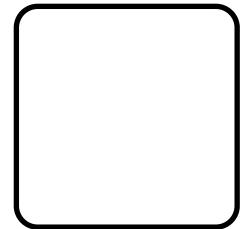
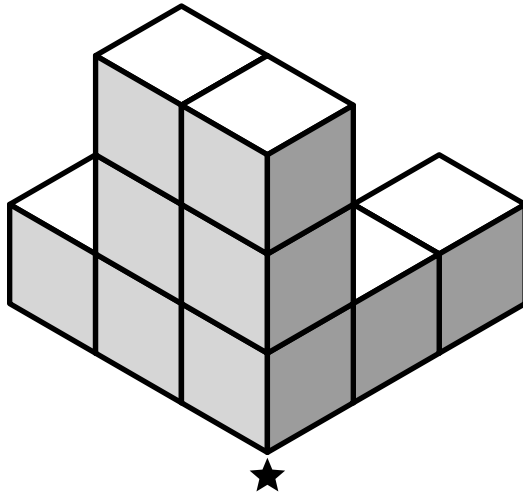
Count the Cubes How many cubes? Count the hidden ones too.



cubes

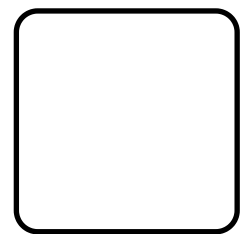
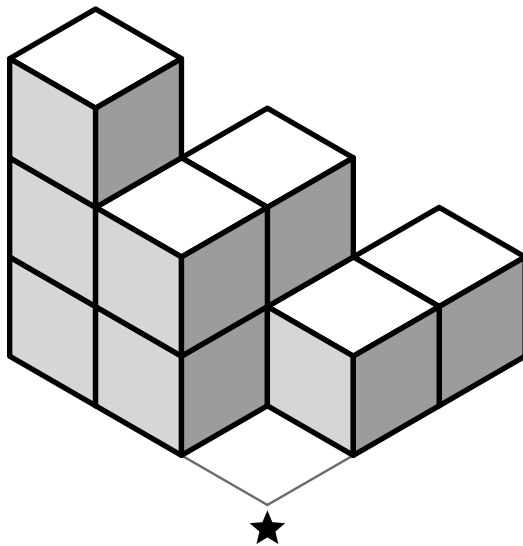


5 Count the Cubes How many more cubes make a big $3 \times 3 \times 3$ cube?



more

6 Count the Cubes How many more cubes make a big $3 \times 3 \times 3$ cube?

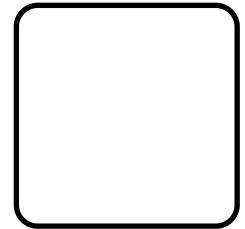
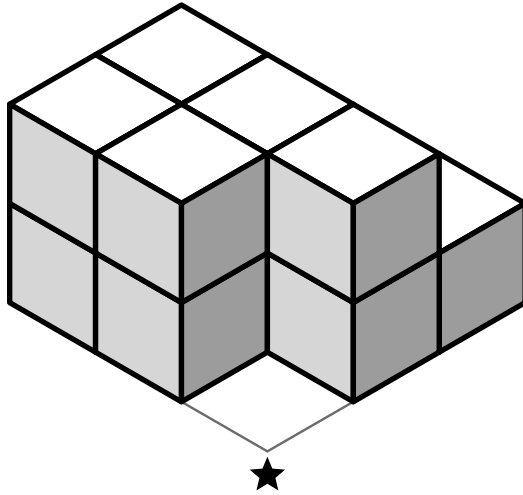


more



7

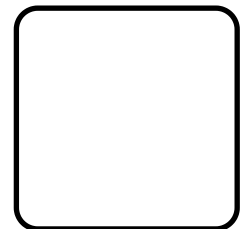
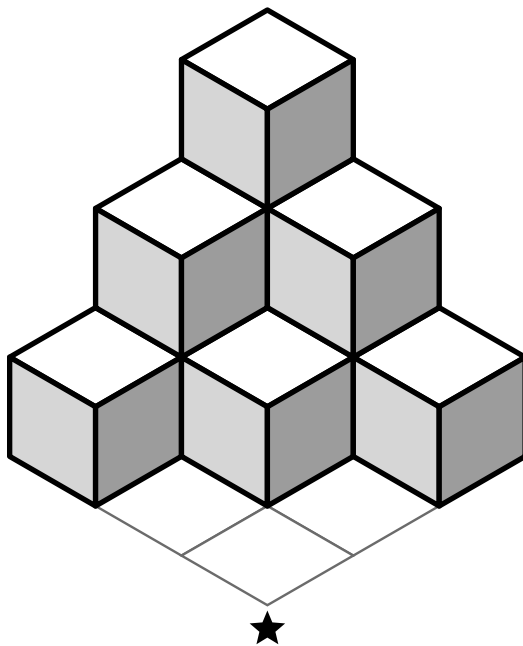
Count the Cubes How many more cubes make a big $3 \times 3 \times 3$ cube?



more

8

Count the Cubes How many more cubes make a big $3 \times 3 \times 3$ cube?



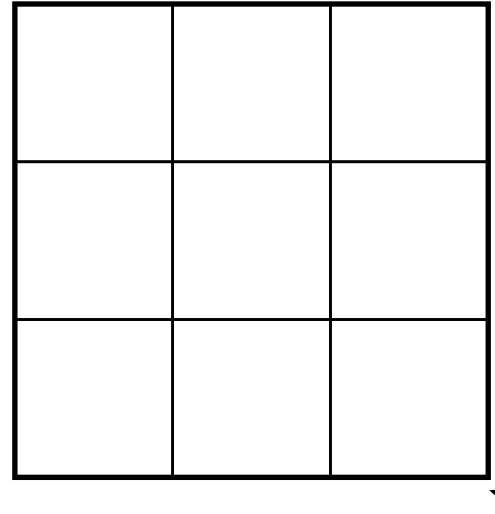
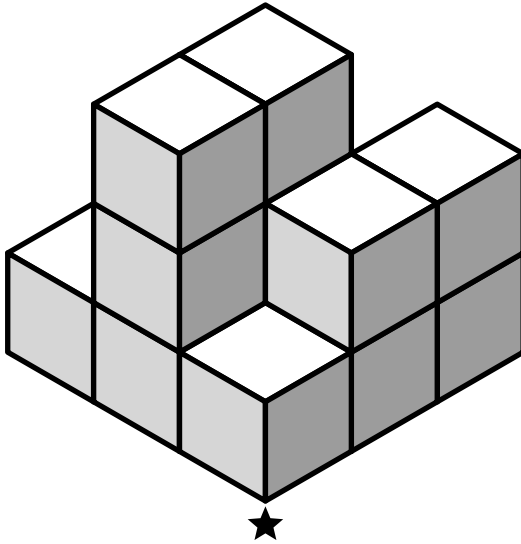
more



9

Count the Cubes

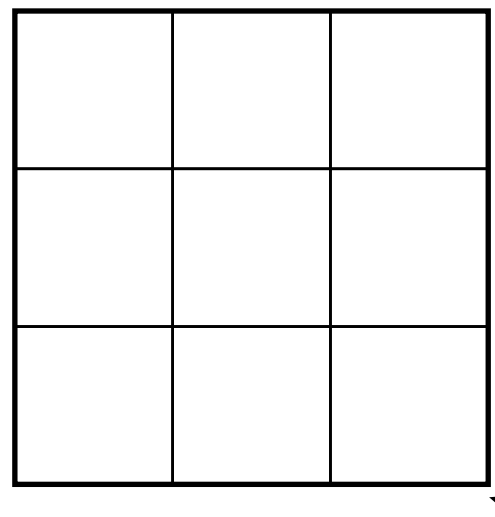
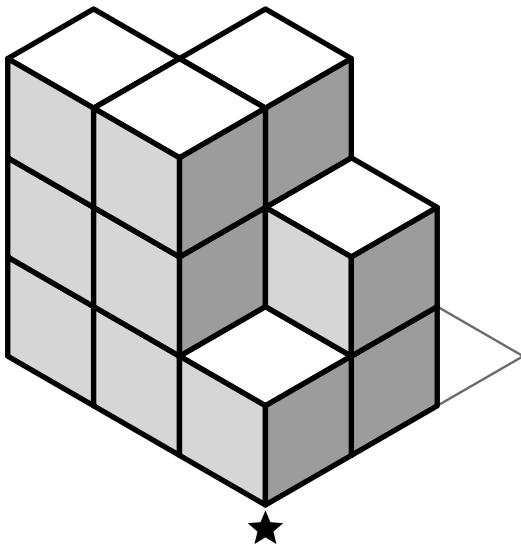
Write the building plan: how many cubes stand on each square? Leave empty squares blank. The star is the front corner.



10

Count the Cubes

Write the building plan: how many cubes stand on each square? Leave empty squares blank. The star is the front corner.



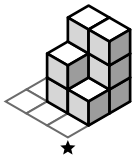


Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

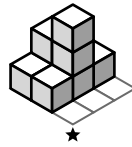
Learn · Count the Cubes

#1



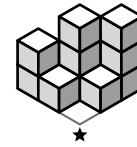
9

cubes



8

cubes



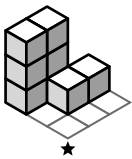
10

cubes

8 cubes: 5 + 2 + 1 layer by layer, bottom up. 1 are hidden under cubes you can see.

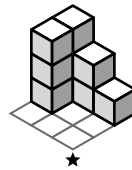
10 cubes: 5 + 3 + 2 layer by layer, bottom up. 1 are hidden under cubes you can see.

#3



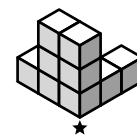
8

cubes



9

cubes



18

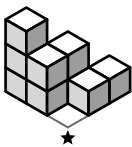
more

8 cubes: 4 + 2 + 2 layer by layer, bottom up. 1 are hidden under cubes you can see.

9 cubes: 4 + 3 + 2 layer by layer, bottom up. 2 are hidden under cubes you can see.

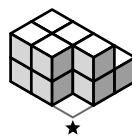
There are 9 cubes. A $3 \times 3 \times 3$ cube has 27, so 18 more.

#6



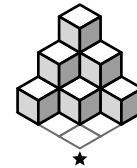
18

more



16

more



17

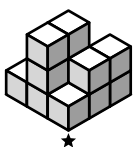
more

There are 9 cubes. A $3 \times 3 \times 3$ cube has 27, so 18 more.

There are 11 cubes. A $3 \times 3 \times 3$ cube has 27, so 16 more.

There are 10 cubes. A $3 \times 3 \times 3$ cube has 27, so 17 more.

#9

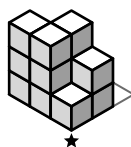


		2
	3	2
1	3	1



Count each stack from the floor up. 2 cubes are hidden: every cube on top stands on a cube below it. 12 cubes in all.

#10



	3	2
3	3	1



Count each stack from the floor up. 2 cubes are hidden: every cube on top stands on a cube below it. 12 cubes in all.