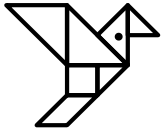


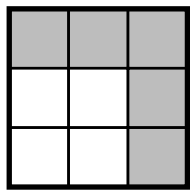


Learn a new puzzle

Views & Plans

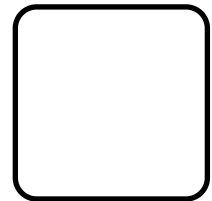
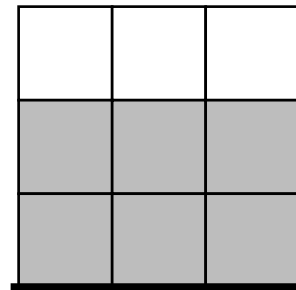
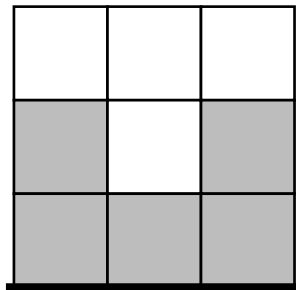


These are the views of some blocks. What is the MOST number of cubes there could be?



front

side



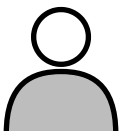
cubes

from above

from the front

from the side

- 1 Only squares shaded from above can have blocks.
- 2 A stack can be no taller than its column in the front view, or in the side view.
- 3 Build it with blocks: try to add one more without changing a view.



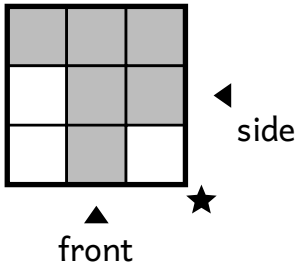
Could you add one more cube and keep all three views the same?



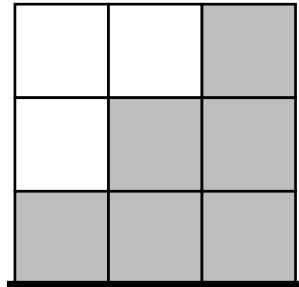
1

Views & Plans

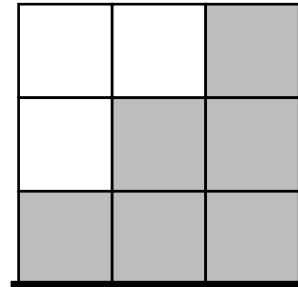
These are the views of some blocks. What is the FEWEST number of cubes there could be?



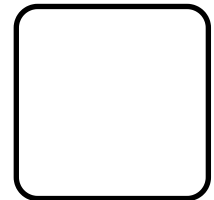
from above



from the front



from the side

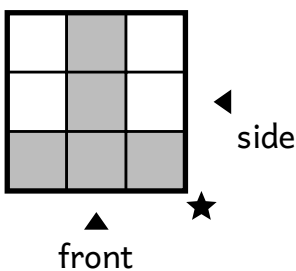


cubes

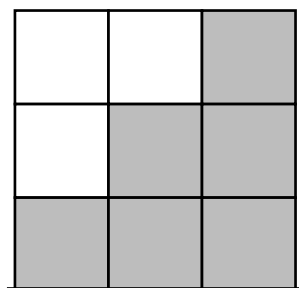
2

Views & Plans

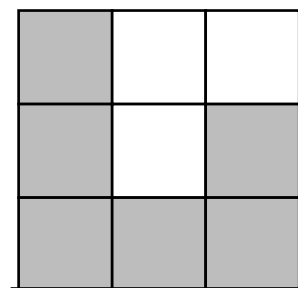
These are the views of some blocks. What is the FEWEST number of cubes there could be?



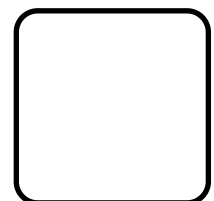
from above



from the front



from the side



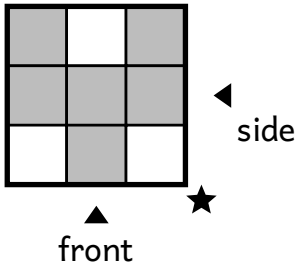
cubes



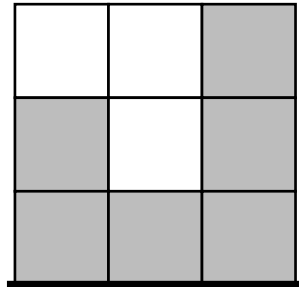
3

Views & Plans

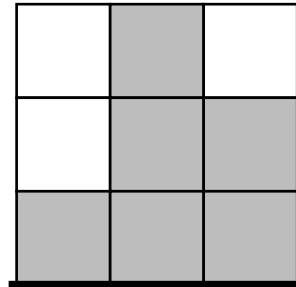
These are the views of some blocks. What is the FEWEST number of cubes there could be?



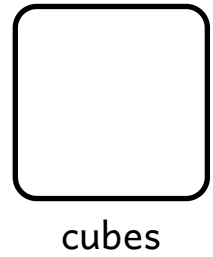
from above



from the front



from the side

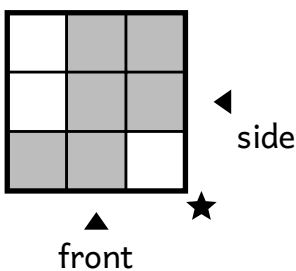


cubes

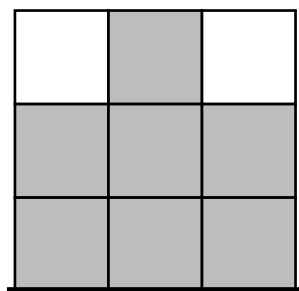
4

Views & Plans

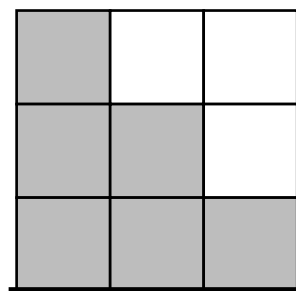
These are the views of some blocks. What is the FEWEST number of cubes there could be?



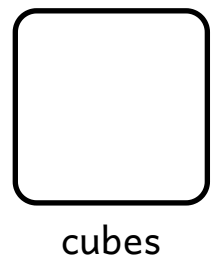
from above



from the front



from the side



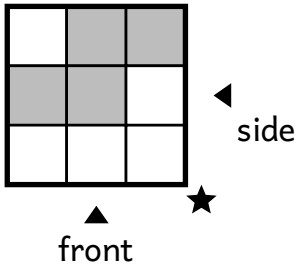
cubes



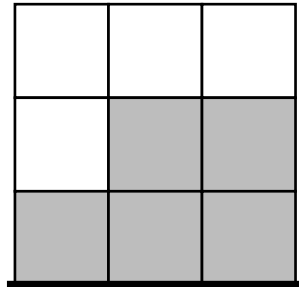
5

Views & Plans

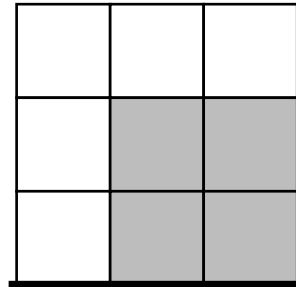
These are the views of some blocks. What is the MOST number of cubes there could be?



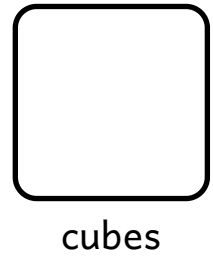
from above



from the front



from the side

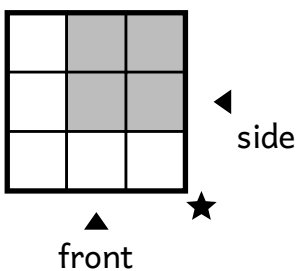


cubes

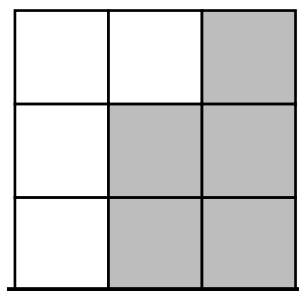
6

Views & Plans

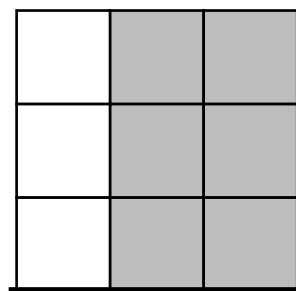
These are the views of some blocks. What is the MOST number of cubes there could be?



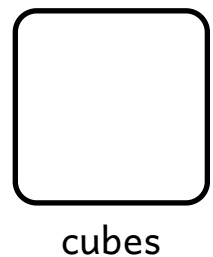
from above



from the front



from the side



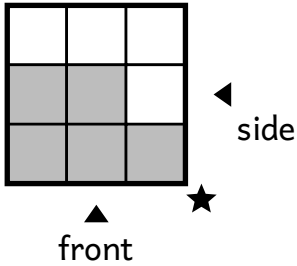
cubes



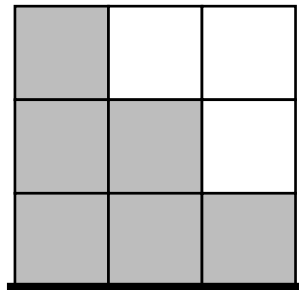
7

Views & Plans

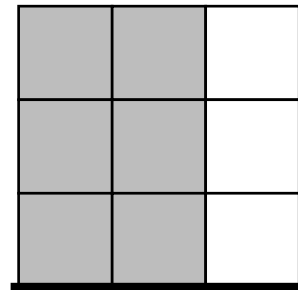
These are the views of some blocks. What is the MOST number of cubes there could be?



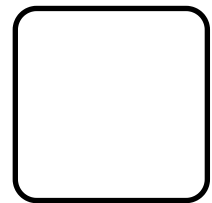
from above



from the front



from the side

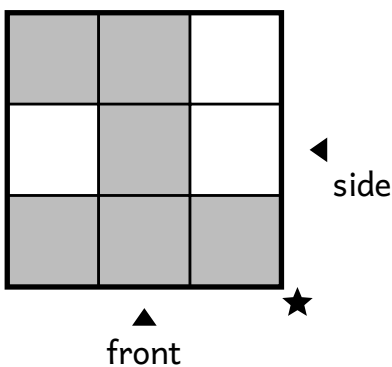


cubes

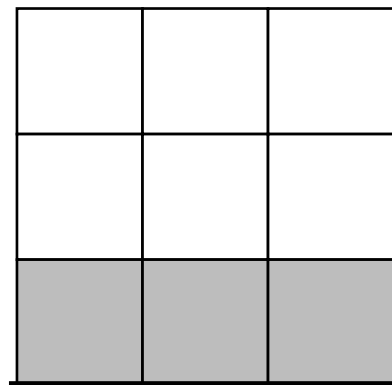
8

Views & Plans

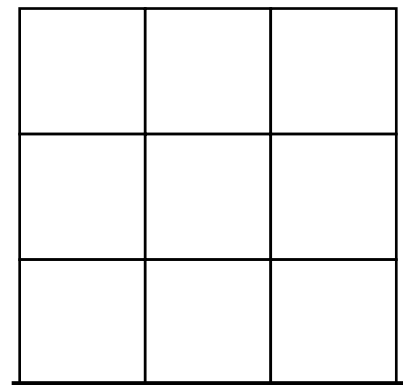
Here are the top and front views. Shade the view from the side.



from above



from the front



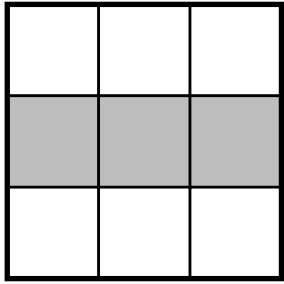
from the side



9

Views & Plans

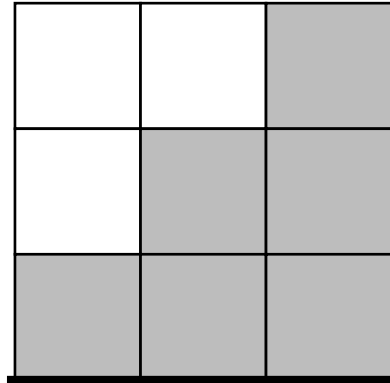
Here are the top and front views. Shade the view from the side.



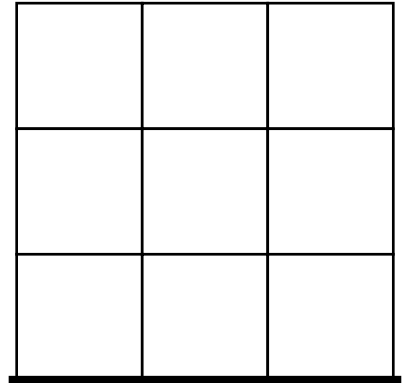
front

from above

side



from the front

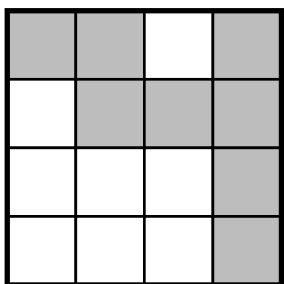


from the side

10

Views & Plans

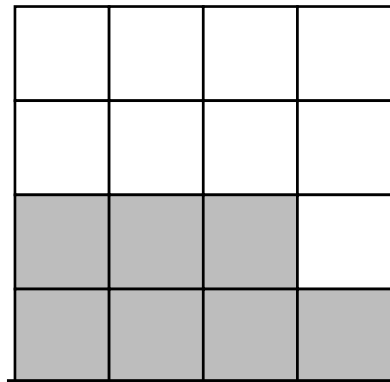
Here are the top and front views. Shade the view from the side.



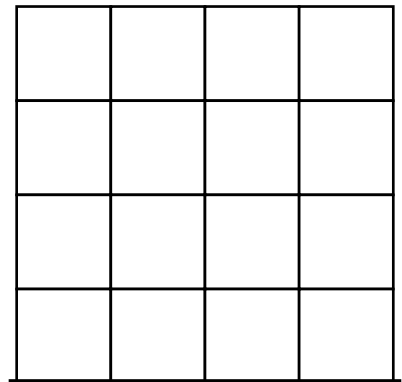
front

from above

side



from the front



from the side



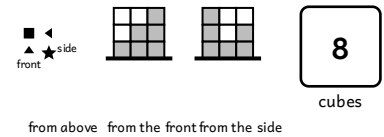
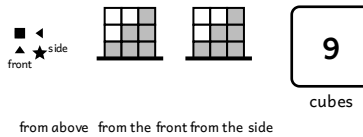
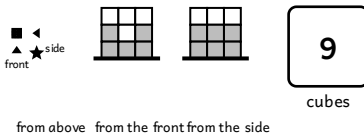
Answers

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

Learn · Views & Plans

#1

#2



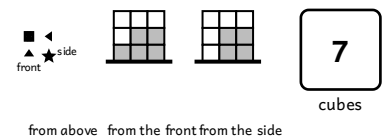
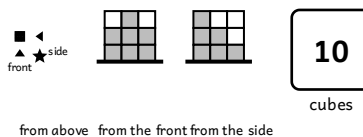
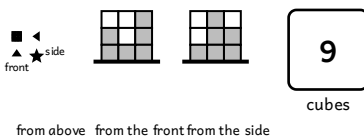
9. Make each tall column in the front and side views with as few stacks as possible: one stack can show in both views; every other shaded square needs just 1 cube.

8. Make each tall column in the front and side views with as few stacks as possible: one stack can show in both views; every other shaded square needs just 1 cube.

#3

#4

#5



9. Make each tall column in the front and side views with as few stacks as possible: one stack can show in both views; every other shaded square needs just 1 cube.

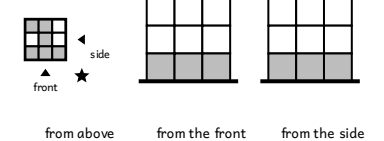
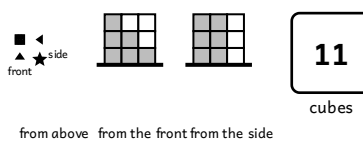
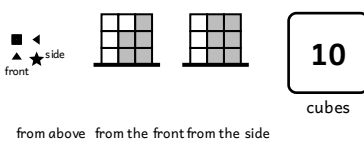
10. Make each tall column in the front and side views with as few stacks as possible: one stack can show in both views; every other shaded square needs just 1 cube.

7. Each square can be as tall as the smaller of its column in the front view and its column in the side view; add those heights.

#6

#7

#8



10. Each square can be as tall as the smaller of its column in the front view and its column in the side view; add those heights.

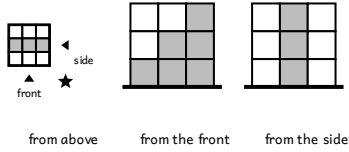
11. Each square can be as tall as the smaller of its column in the front view and its column in the side view; add those heights.

Each column of the side view is as tall as the tallest stack in that row from above.



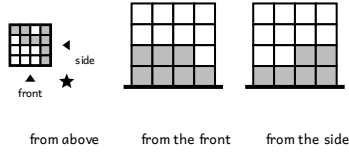
Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9



Each column of the side view is as tall as the tallest stack in that row from above.

#10



Side view, front row first: 1, 1, 2, 2. A row is as tall as its tallest stack. A square that is alone in its column must be as tall as that column of the front view. In the third row from the front, the square in the 3rd column is alone, so it is 2 tall. The square in the 2nd column shares its column, so it could be shorter, and nothing in that row can be taller than 2.