



TIMO practice: Counting cubes (with solutions)

12 problems · Grade 1, 2, 3 · answers and solutions at the end

Name _____

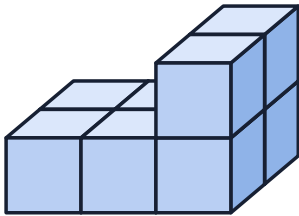
Date _____



Practise this type in the Karotto app, with questions read aloud and hints when stuck. Scan the code or visit playkarotto.com

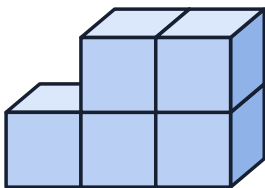
Grade 1

- 1 How many cubes are in the picture? A cube on top always has a cube under it.



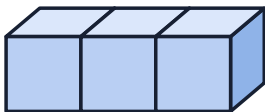
Answer: _____

- 2 How many cubes are in the picture? A cube on top always has a cube under it.



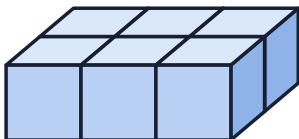
Answer: _____

- 3 How many cubes are in the picture? A cube on top always has a cube under it.



Answer: _____

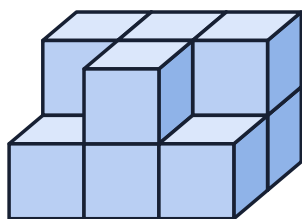
- 4 How many cubes are in the picture? A cube on top always has a cube under it.



Answer: _____

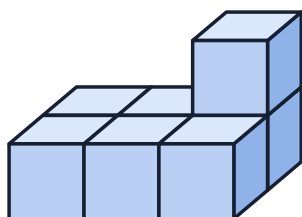
Grade 2

- 5 How many cubes are in the picture? A cube on top always has a cube under it.



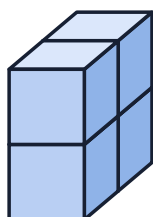
Answer: _____

- 6 How many cubes are in the picture? A cube on top always has a cube under it.



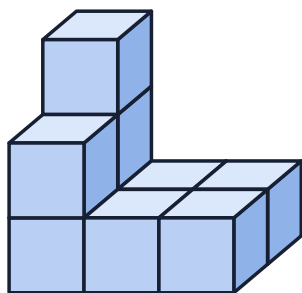
Answer: _____

- 7 At least how many more cubes do you need to make a big cube with 2 layers, 2 rows in each layer and 2 cubes in each row?



Answer: _____

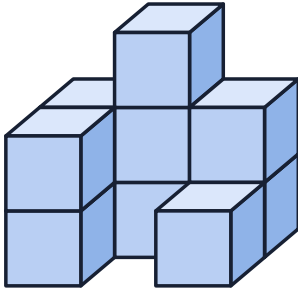
- 8 How many cubes are in the picture? A cube on top always has a cube under it.



Answer: _____

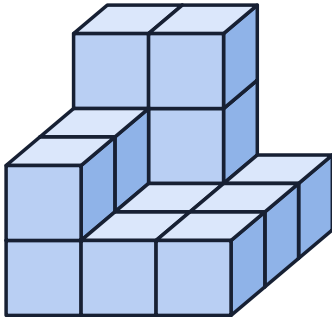
Grade 3

- 9 At least how many more cubes do you need to make a big cube with 3 layers, 3 rows in each layer and 3 cubes in each row?



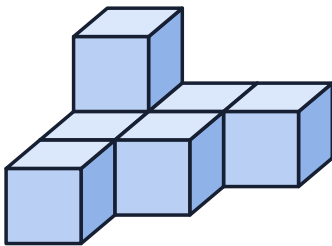
Answer: _____

- 10 How many cubes are in the picture? A cube on top always has a cube under it.



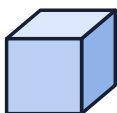
Answer: _____

- 11 At least how many more cubes do you need to make a big cube with 3 layers, 3 rows in each layer and 3 cubes in each row?



Answer: _____

- 12 At least how many more cubes do you need to make a big cube with 3 layers, 3 rows in each layer and 3 cubes in each row?



Answer: _____

Answers and solutions: Counting cubes

1. Answer: 8 · Grade 1

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 1 plus 1 plus 2 plus 1 plus 1 plus 2 equals 8 cubes.

2. Answer: 5 · Grade 1

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 1 plus 2 plus 2 equals 5 cubes.

3. Answer: 3 · Grade 1

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 1 plus 1 plus 1 equals 3 cubes.

4. Answer: 6 · Grade 1

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 1 plus 1 plus 1 plus 1 plus 1 plus 1 equals 6 cubes.

5. Answer: 10 · Grade 2

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 2 plus 2 plus 2 plus 1 plus 2 plus 1 equals 10 cubes.

6. Answer: 7 · Grade 2

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 1 plus 1 plus 2 plus 1 plus 1 plus 1 equals 7 cubes.

7. Answer: 4 · Grade 2

How to think: How many small cubes does a big cube with 2 layers need in all?

Solution: The big cube has 8 cubes and 4 are already there: 8 minus 4 equals 4 cubes.

8. Answer: 9 · Grade 2

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 3 plus 1 plus 1 plus 2 plus 1 plus 1 equals 9 cubes.

9. Answer: 17 · Grade 3

How to think: How many small cubes does a big cube with 3 layers need in all?

Solution: The big cube has 27 cubes and 10 are already there: 27 minus 10 equals 17 cubes.

10. Answer: 15 · Grade 3

How to think: Count column by column, and remember the hidden cubes underneath.

Solution: Add up the cubes in each column: 3 plus 3 plus 1 plus 2 plus 1 plus 1 plus 2 plus 1 plus 1 equals 15 cubes.

11. Answer: 20 · Grade 3

How to think: How many small cubes does a big cube with 3 layers need in all?

Solution: The big cube has 27 cubes and 7 are already there: 27 minus 7 equals 20 cubes.

12. Answer: 26 · Grade 3

How to think: How many small cubes does a big cube with 3 layers need in all?

Solution: The big cube has 27 cubes and 1 are already there: 27 minus 1 equals 26 cubes.
