Count the Cubes ANSWERS

Bands 1, 2, 3, 4, 5 · 10 questions · Free sample

Each picture asks its own question. Every cube rests on the floor or on another cube, so under every top you see there are cubes all the way down. A cube is hidden when no part of it can be seen.

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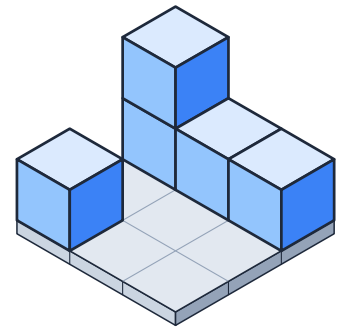
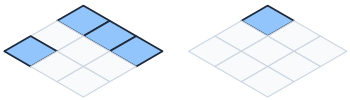
1 Band 1

Answer: B

How many cubes are in the stack?





Floor layer: 4 cubes Layer 2: 1 cube

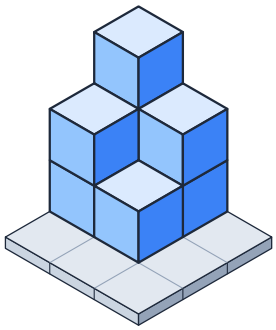
5 cubes in all: 5 in sight and 0 hidden (coral).

A **4** One cube per column: the cubes under the tops were missed	**B** **5** The answer	C **6** Too many	D **7** Too many

2 Band 1

Answer: A

How many cubes are in the stack?





Floor layer: 4 cubes | Layer 2: 3 cubes | Layer 3: 1 cube

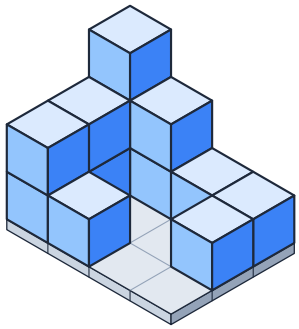
8 cubes in all: 6 in sight and 2 hidden (coral).

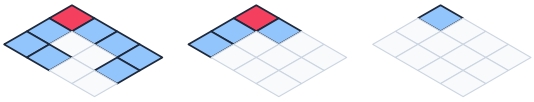
A 8 — The answer	B 9 — Too many	C 10 — Too many	D 11 — Too many

3 Band 2

Answer: D

How many cubes are in the stack?





Floor layer: 8 cubes | Layer 2: 4 cubes | Layer 3: 1 cube

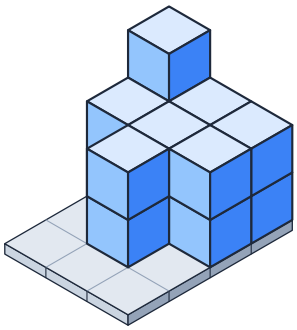
13 cubes in all: 11 in sight and 2 hidden (coral).

A 8 — One cube per column: the cubes under the tops were missed	B 11 — Only the cubes in sight: the hidden ones were missed	C 12 — Too few	**D** 13 — The answer

4 Band 2

Answer: B

How many cubes are hidden from view?





Floor layer: 7 cubes | Layer 2: 7 cubes | Layer 3: 1 cube

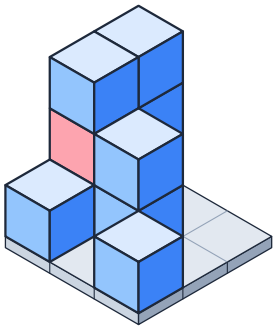
15 cubes in all: 10 in sight and 5 hidden (coral).

A 4 — Too few	**B 5 — The answer**	C 6 — Too many	D 7 — Too many

5 Band 3

Answer: C

How many cubes share a face with the coral cube?





Floor layer: 5 cubes | Layer 2: 3 cubes | Layer 3: 2 cubes

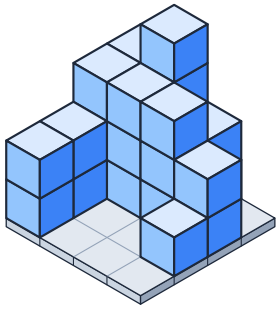
The coral cube shares a face with 4 cubes (blue), above and below included.

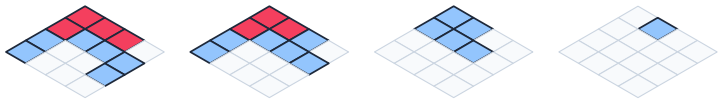
A 2 — Too few	B 3 — Only the neighbours in sight: a hidden one was missed	**C 4 — The answer**	D 5 — Too many

6 Band 3

Answer: B

How many cubes are in the stack?





Floor layer: 10 cubes | Layer 2: 9 cubes | Layer 3: 5 cubes | Layer 4: 1 cube

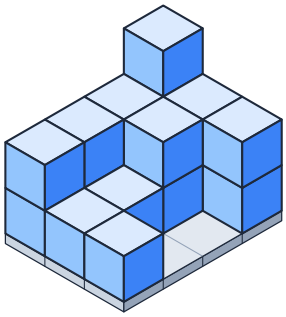
25 cubes in all: 18 in sight and 7 hidden (coral).

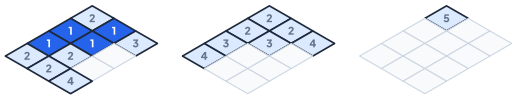
A **18** Only the cubes in sight: the hidden ones were missed	**B 25** The answer	C **26** Too many	D **27** Too many

7 Band 4

Answer: C

The stack is painted all over, except where it rests on the floor. How many cubes have exactly 1 painted face?





Floor layer: 10 cubes | Layer 2: 7 cubes | Layer 3: 1 cube

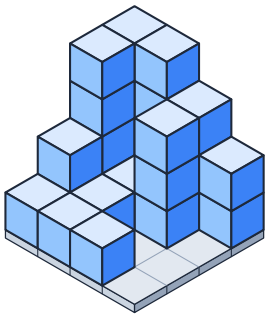
The number on each cube is its painted faces; 4 cubes have exactly 1 (blue).

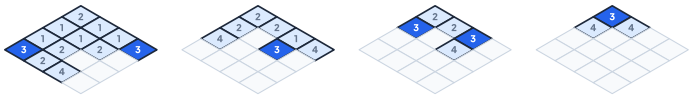
A **0** The cubes with one painted face fewer	B **1** Only the cubes in sight: a hidden one counts too	**C 4** The answer	D **7** The cubes with one painted face more

8 Band 4

Answer: B

The stack is painted all over, except where it rests on the floor. How many cubes have exactly 3 painted faces?





Floor layer: 12 cubes | Layer 2: 7 cubes | Layer 3: 5 cubes | Layer 4: 3 cubes

The number on each cube is its painted faces; 6 cubes have exactly 3 (blue).

A **5** — Too few

B **6** — The answer

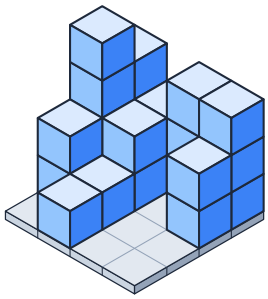
C **7** — Too many

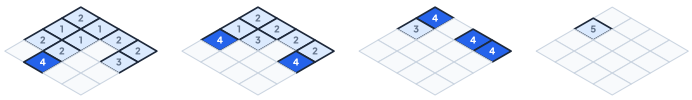
D **9** — The cubes with one painted face fewer

9 Band 5

Answer: D

The stack is painted all over, except where it rests on the floor. How many cubes have exactly 4 painted faces?





Floor layer: 10 cubes | Layer 2: 8 cubes | Layer 3: 4 cubes | Layer 4: 1 cube

The number on each cube is its painted faces; 6 cubes have exactly 4 (blue).

A **1** — The cubes with one painted face more

B **3** — The cubes with one painted face fewer

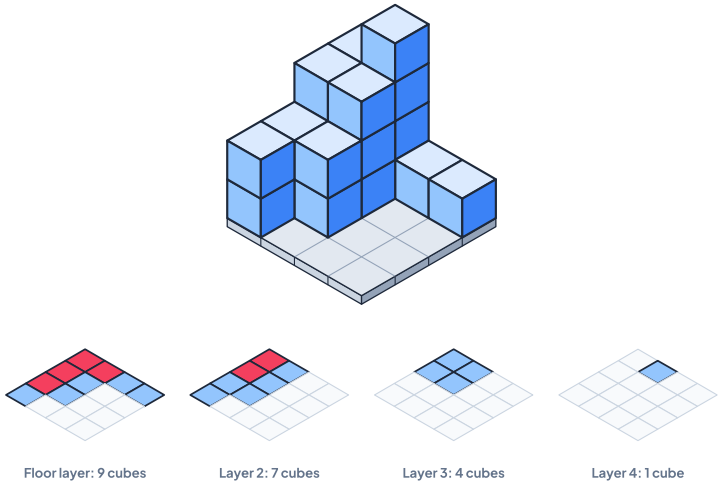
C **5** — Too few

D **6** — The answer

10 Band 5

Answer: C

How many cubes are in the stack?



21 cubes in all: 15 in sight and 6 hidden (coral).

A **9** One cube per column: the cubes under the tops were missed	B **15** Only the cubes in sight: the hidden ones were missed	C **21** The answer	D **22** Too many

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