4.9 Plans and Elevations: 2-hour Pack

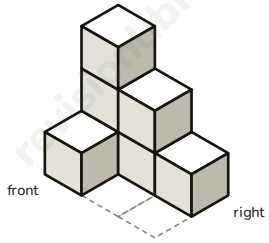
GL ASSESSMENT GL-EP.N11 · Calculators not allowed · about 120 minutes

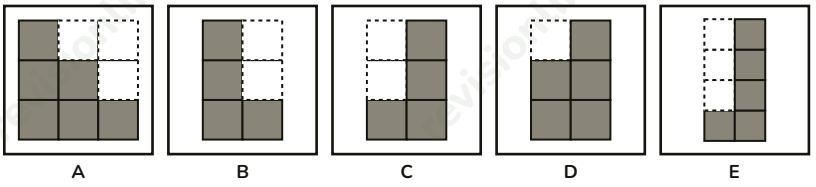
Total Marks

Name: _____ Date: ____ / ____ / _____

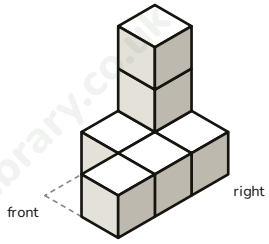
Answer ALL questions. Show all your working.

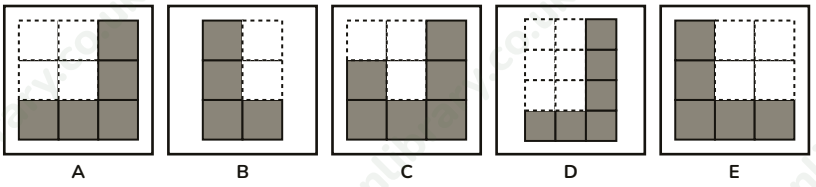
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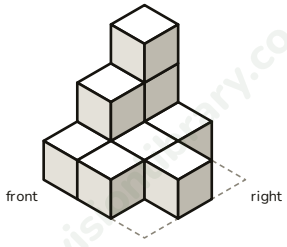


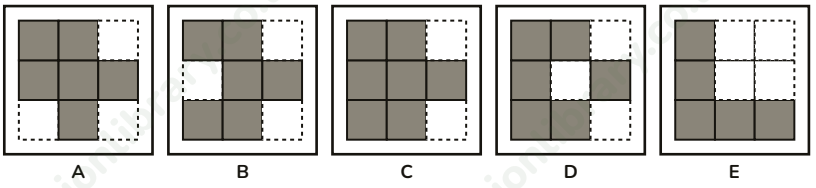
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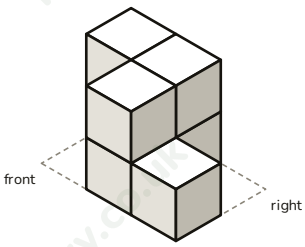


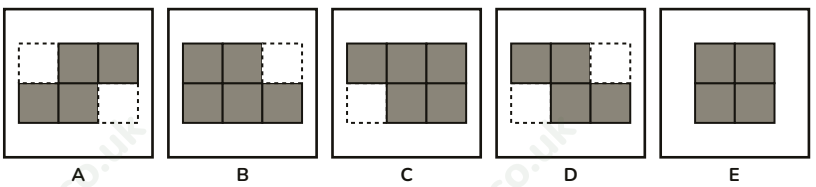
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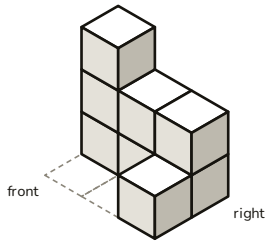
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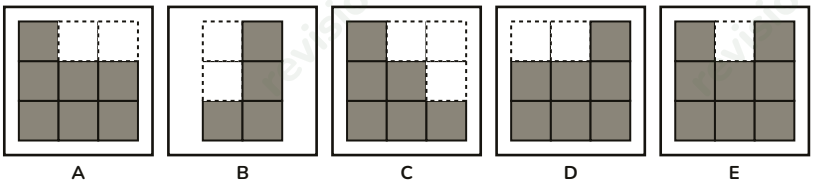




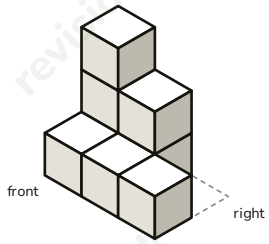
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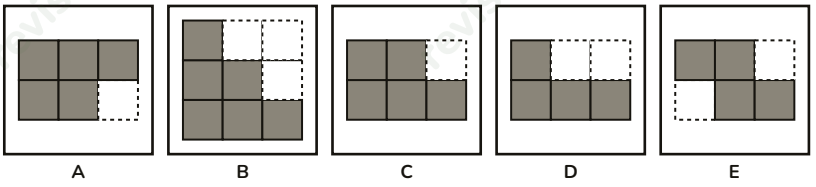
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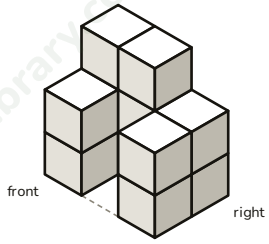


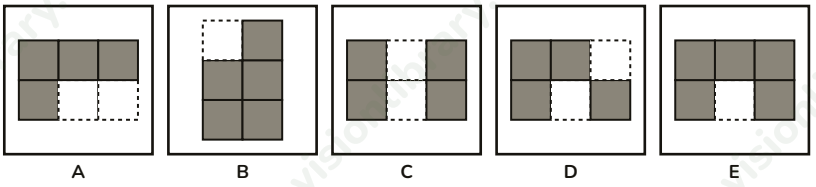
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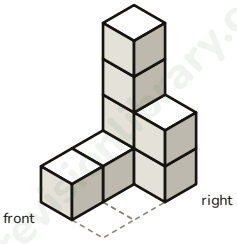


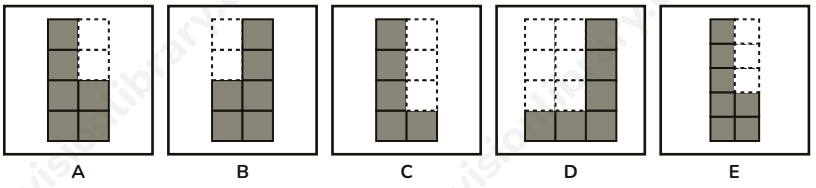
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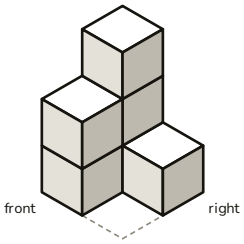
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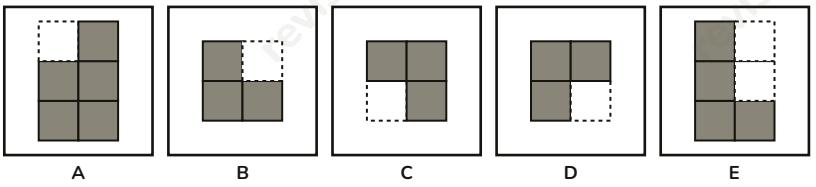




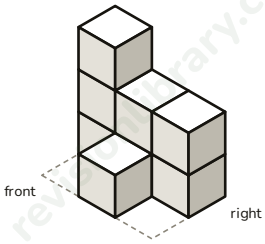
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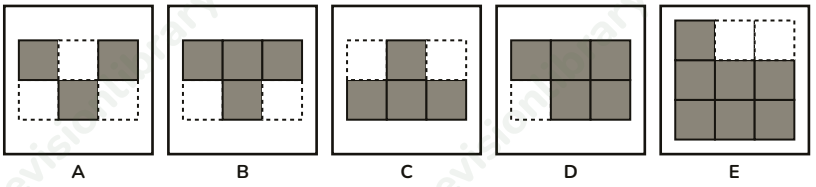
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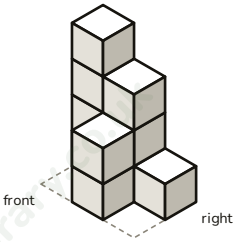


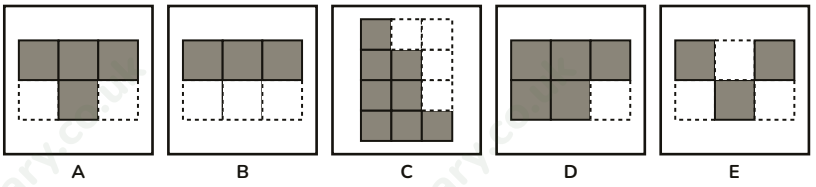
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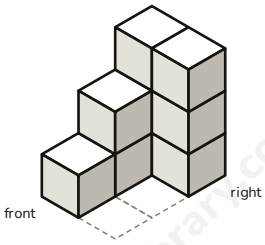


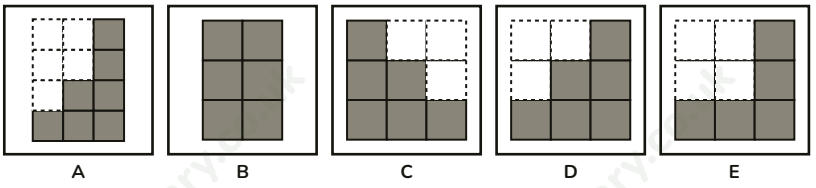
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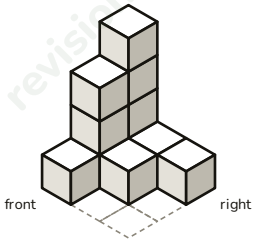


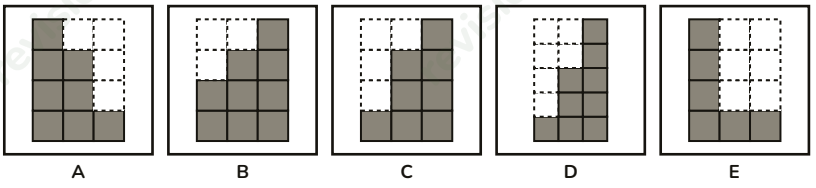
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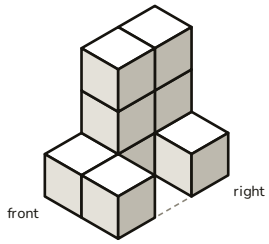
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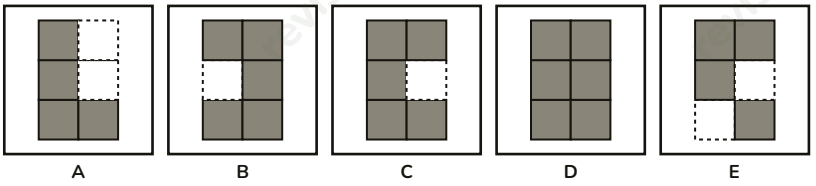




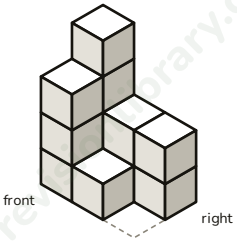
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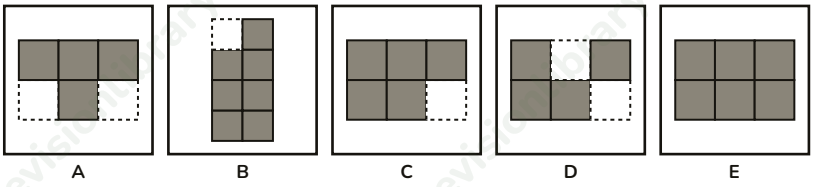
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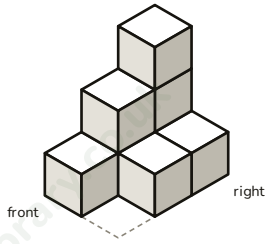


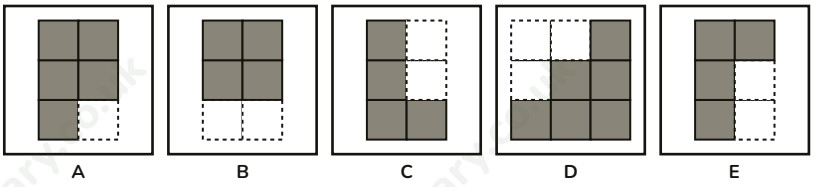
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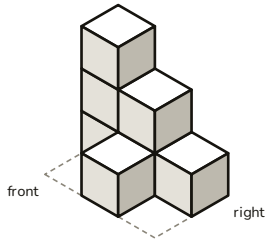


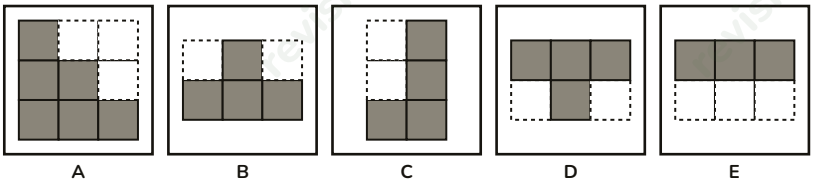
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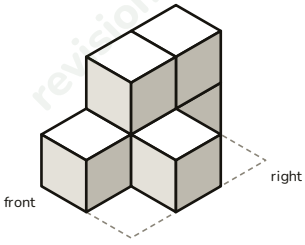


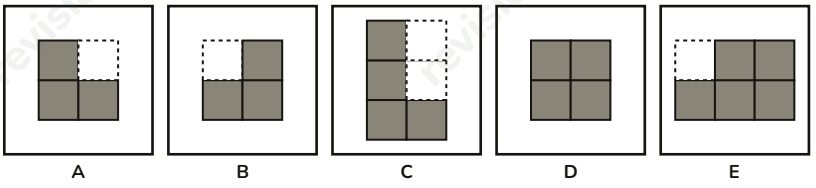
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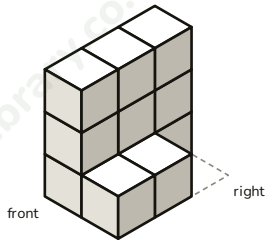
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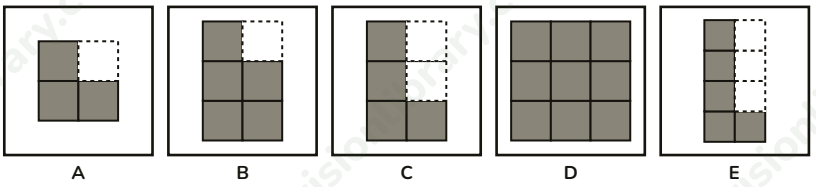




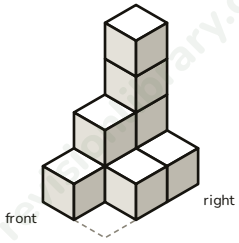
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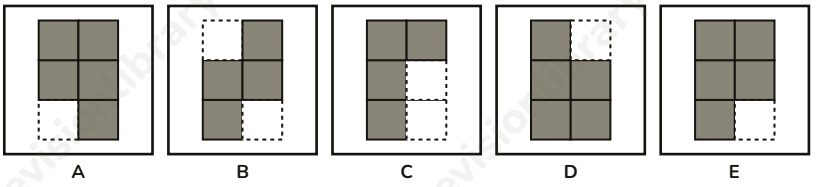
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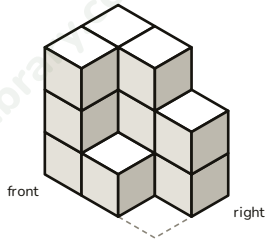


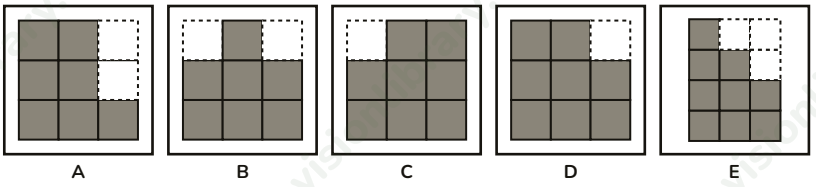
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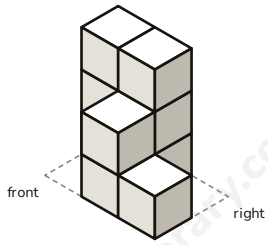


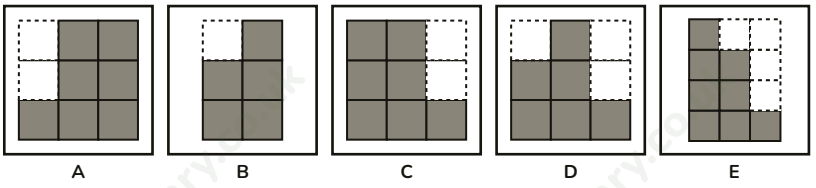
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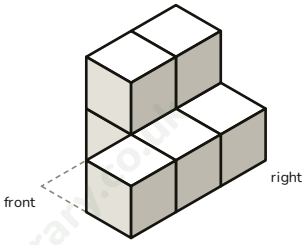


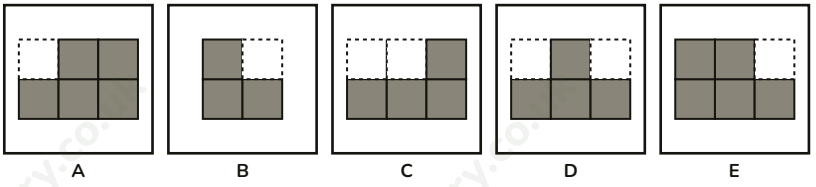
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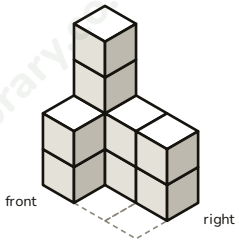
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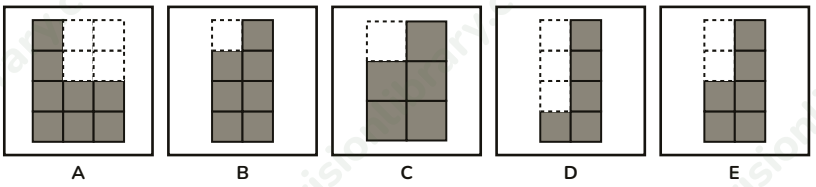




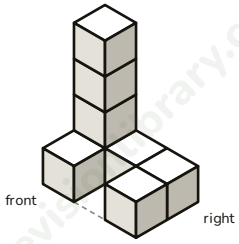
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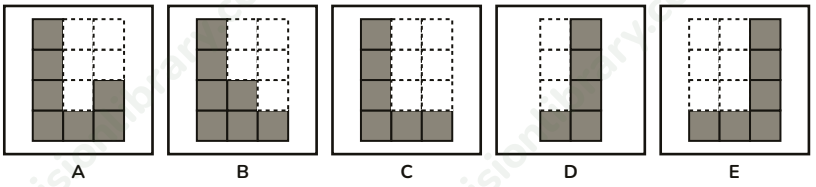
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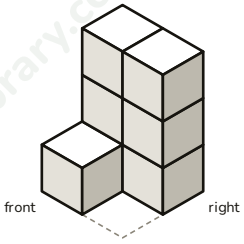


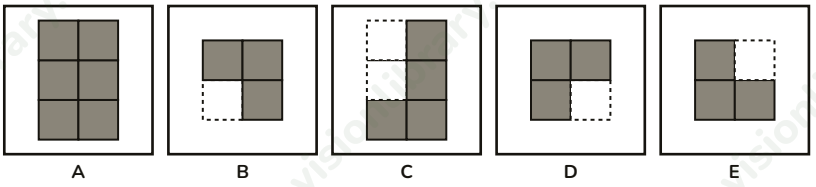
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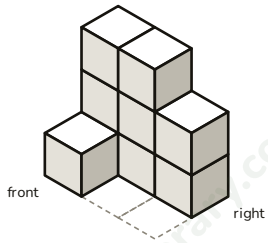


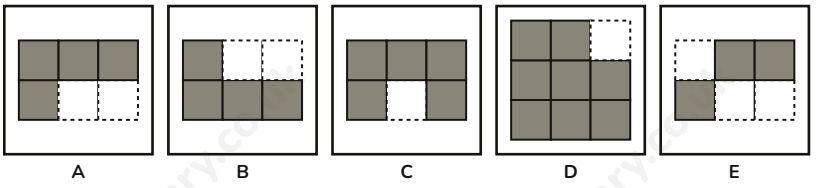
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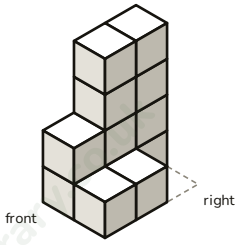


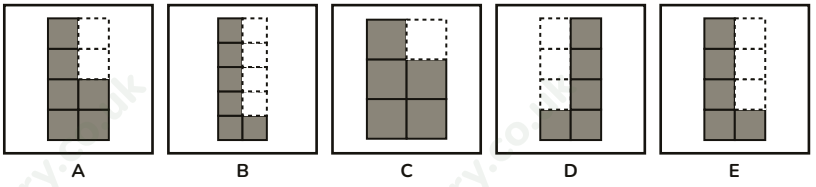
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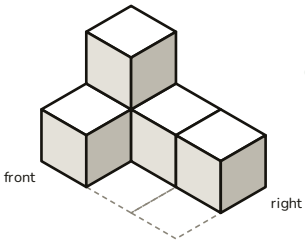
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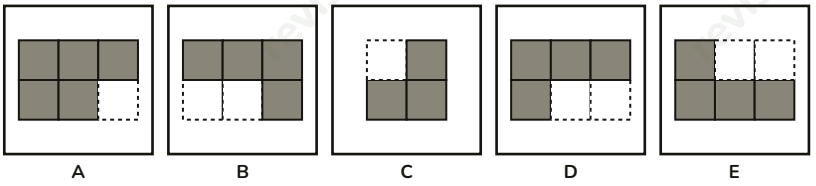




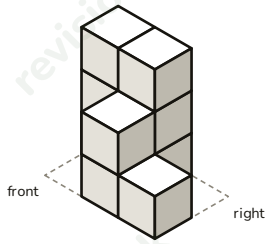
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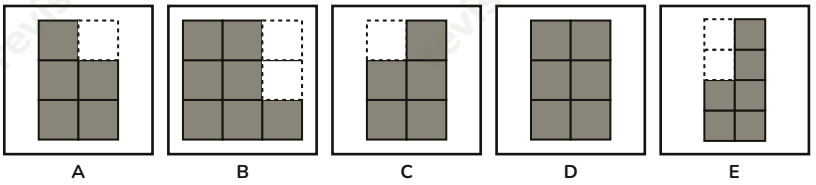
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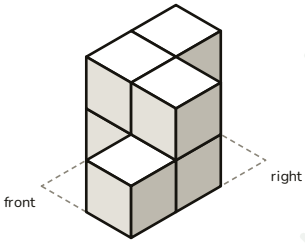


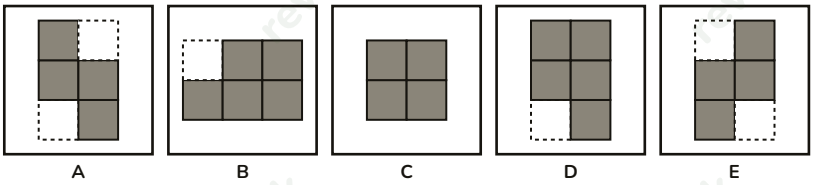
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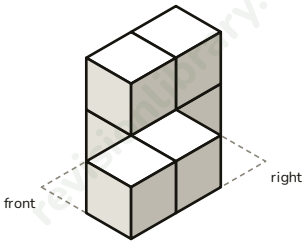


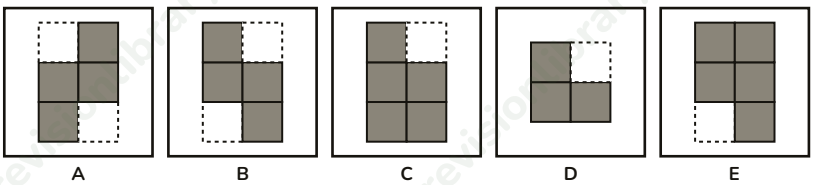
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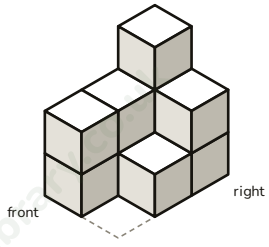


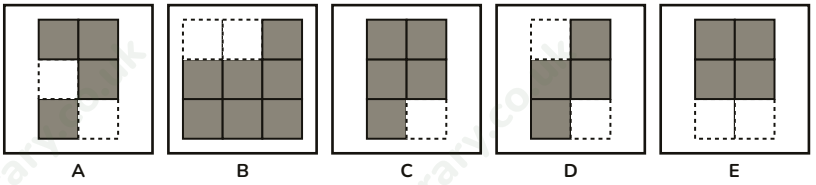
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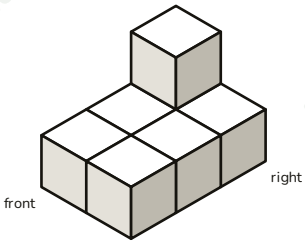
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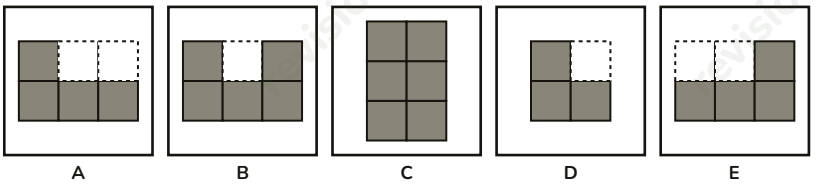




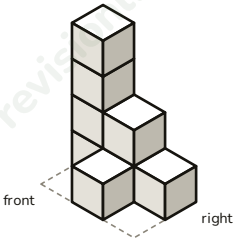
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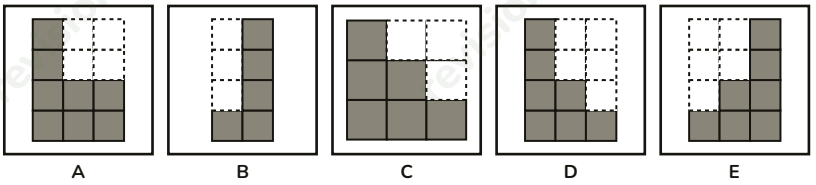
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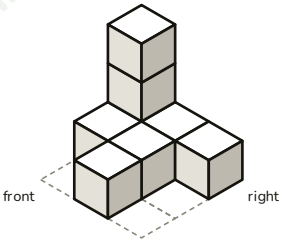


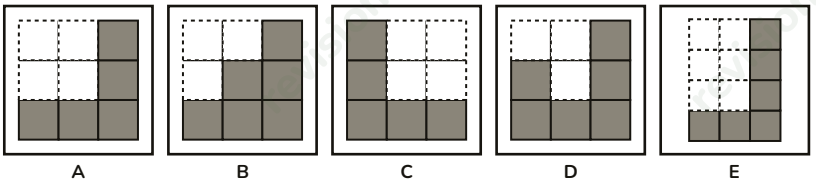
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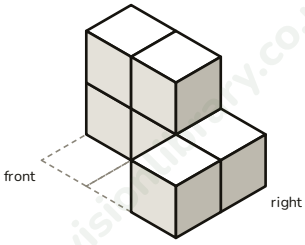


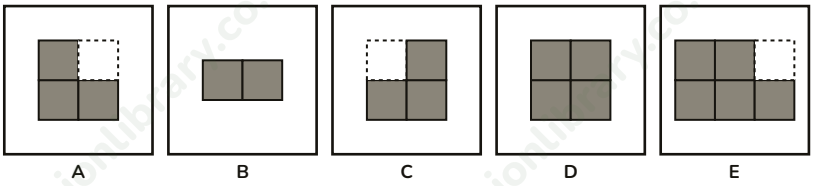
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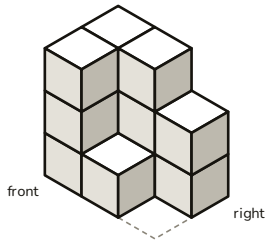
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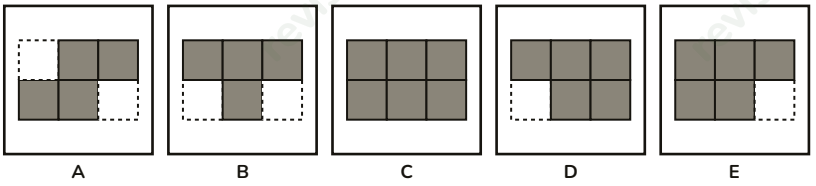




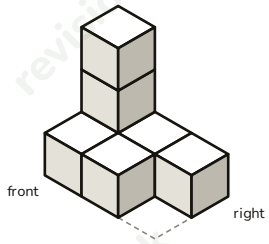
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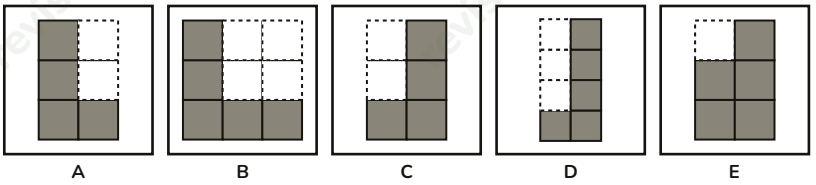
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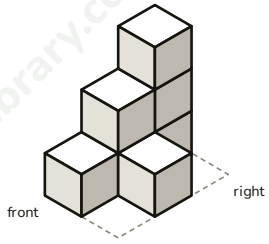


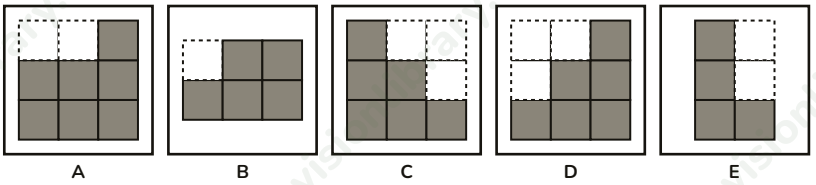
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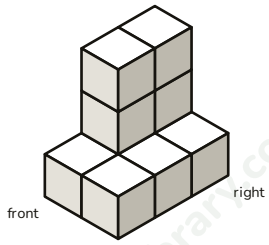


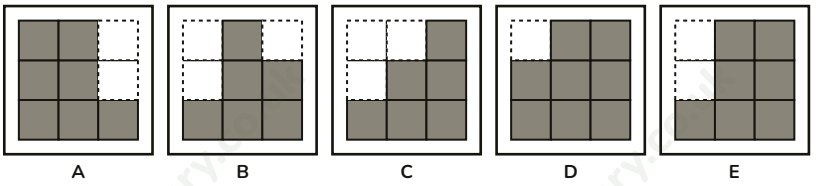
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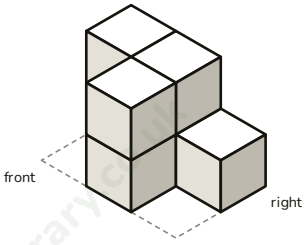


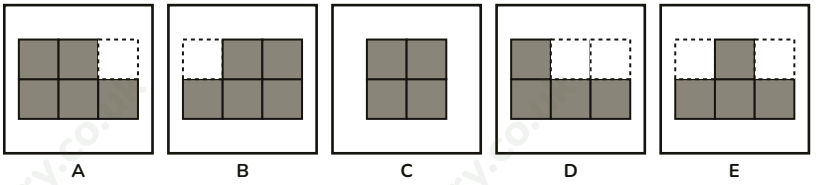
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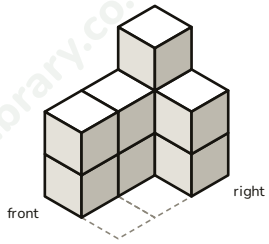
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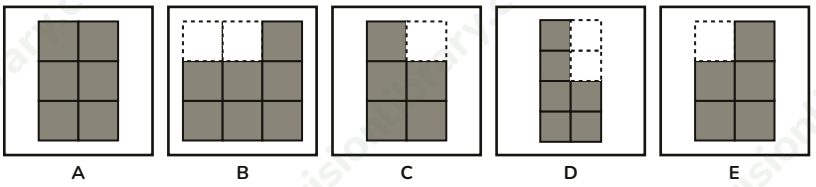




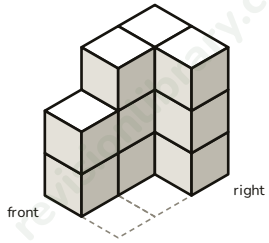
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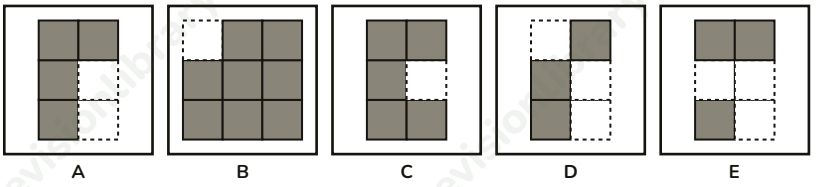
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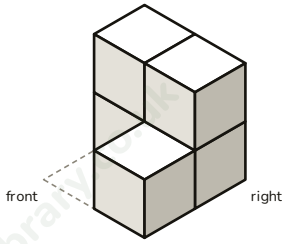


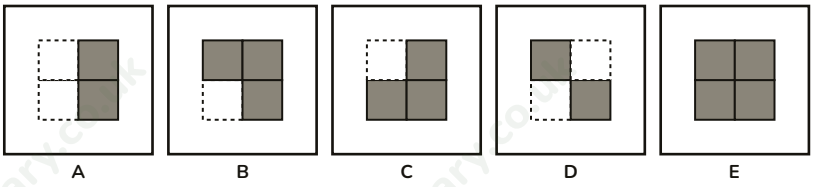
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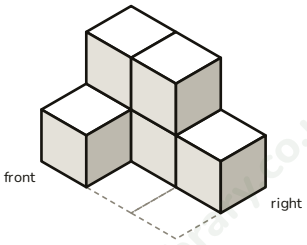


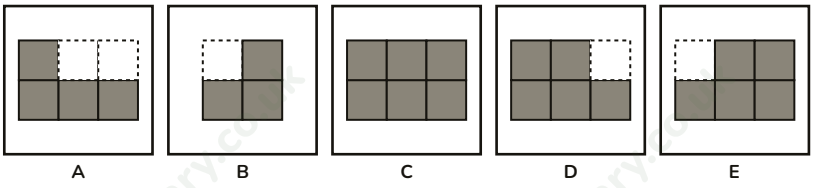
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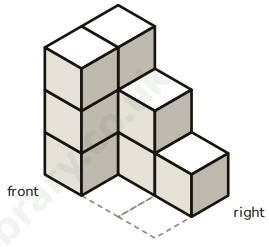


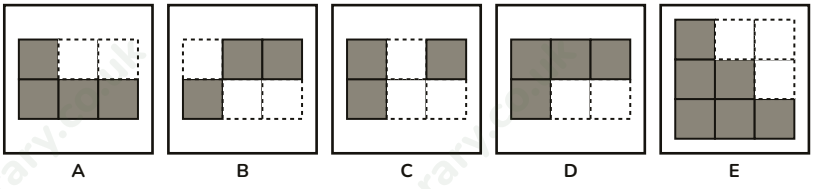
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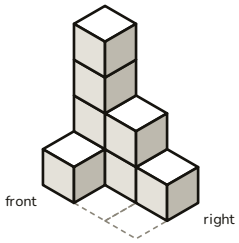
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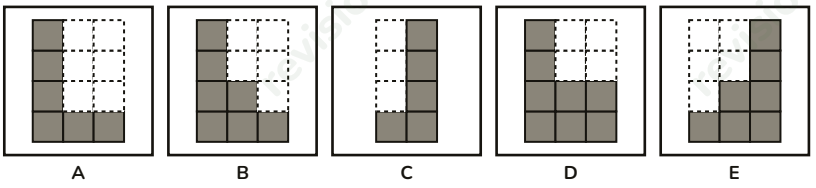




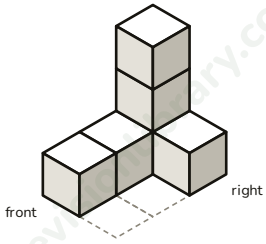
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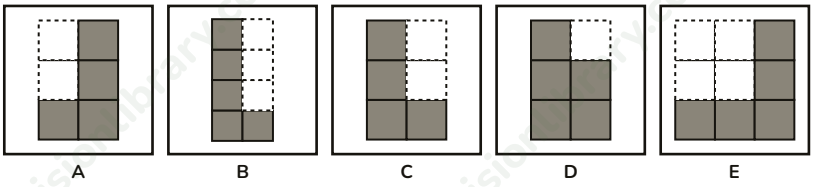
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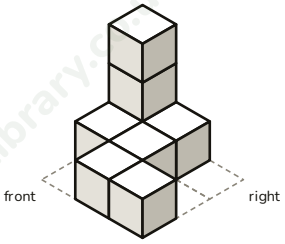


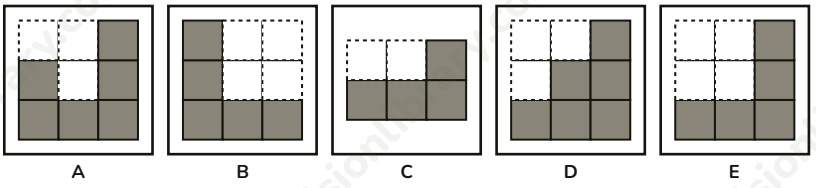
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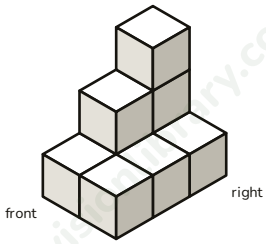


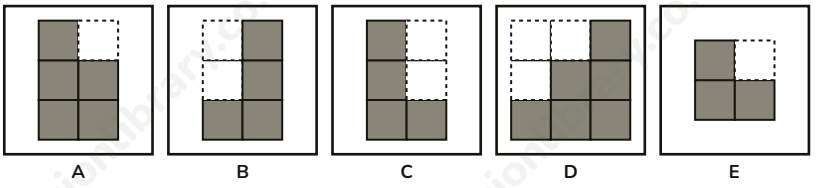
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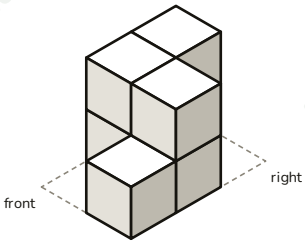
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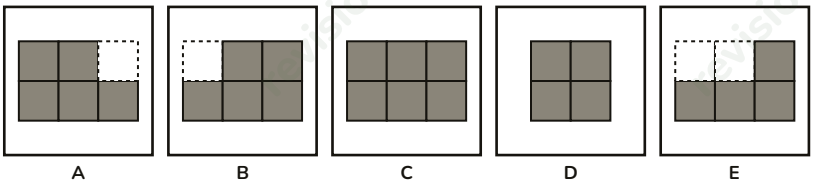




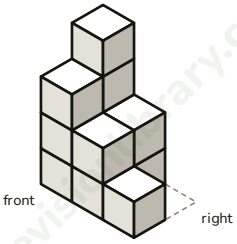
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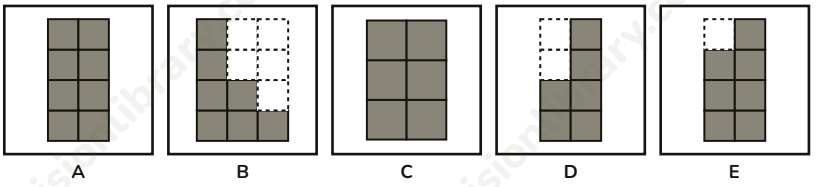
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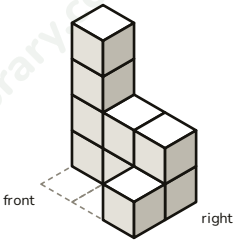


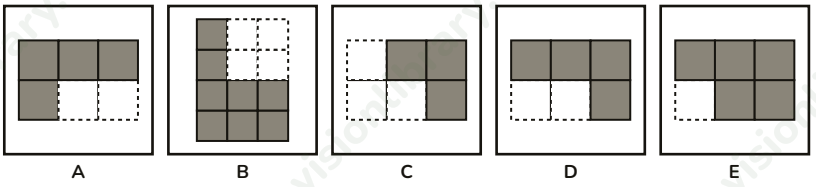
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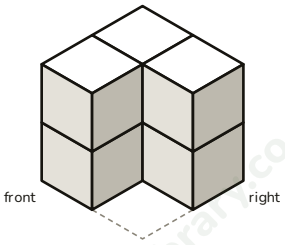


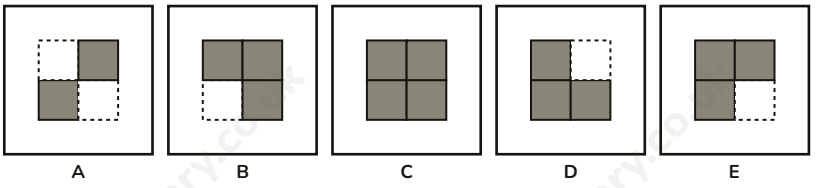
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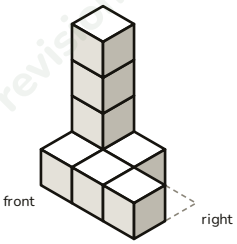


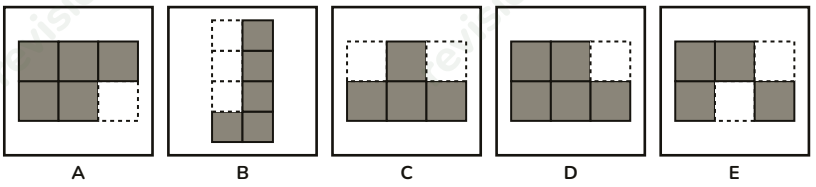
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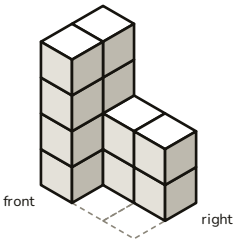
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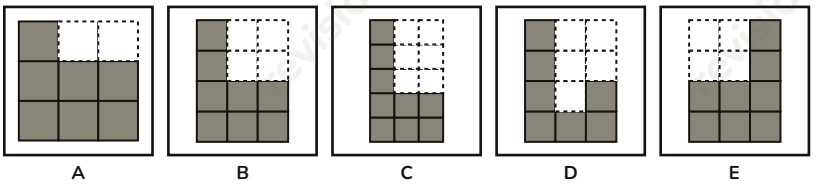




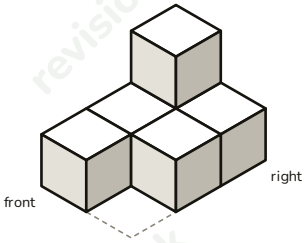
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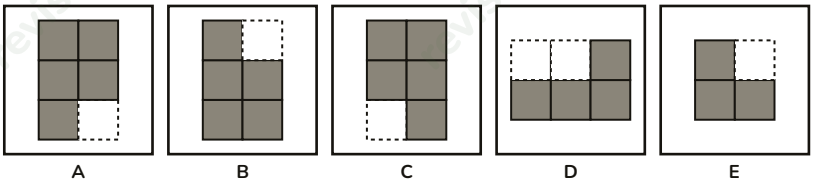
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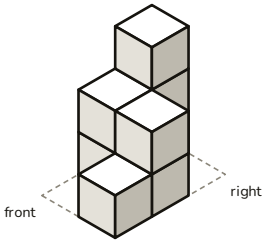


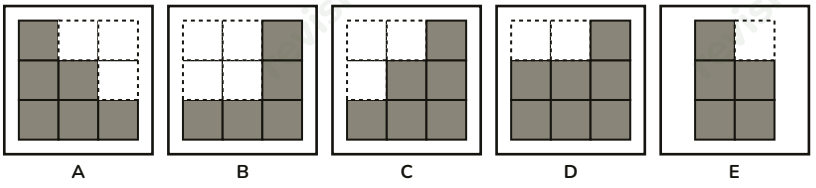
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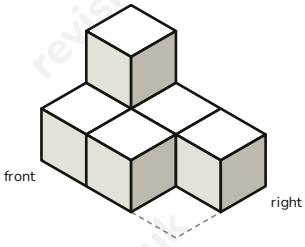


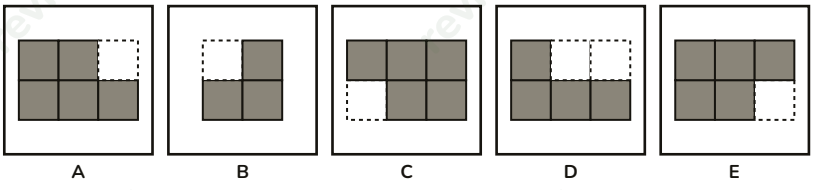
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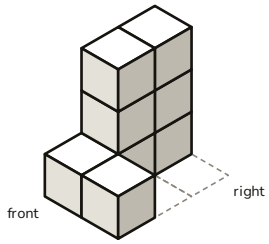
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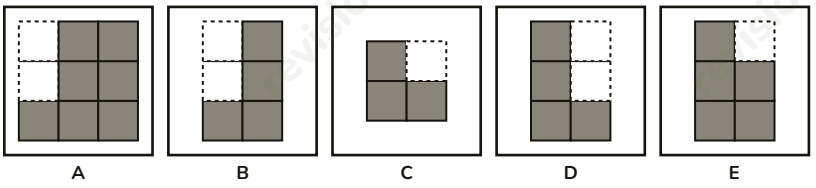




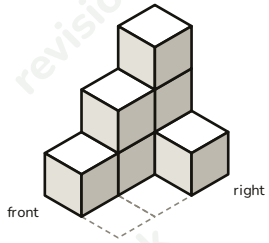
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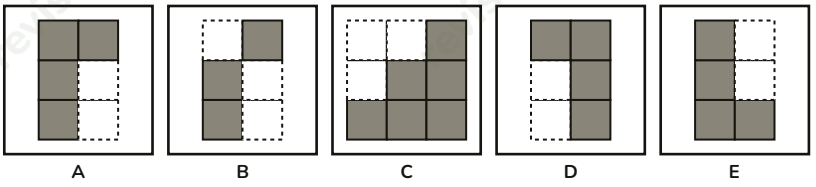
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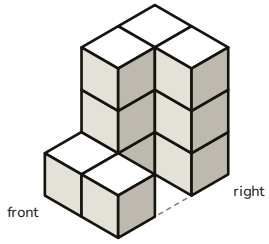


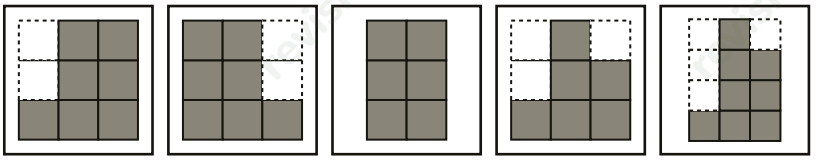
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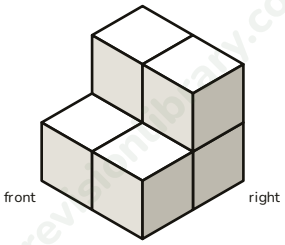


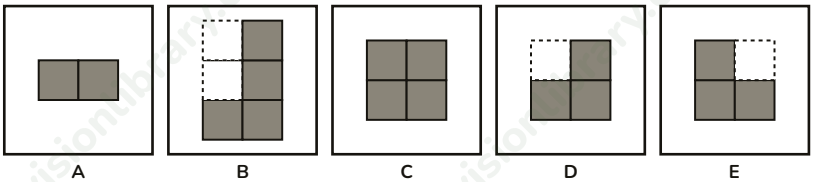
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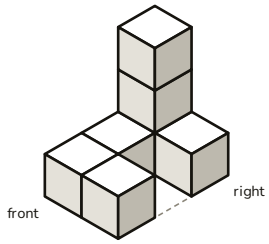
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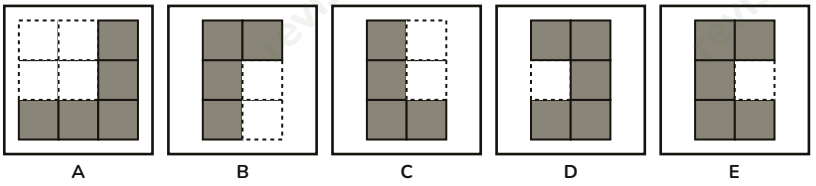




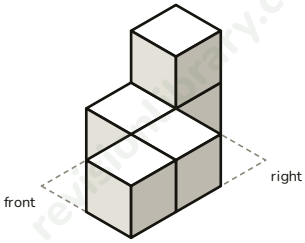
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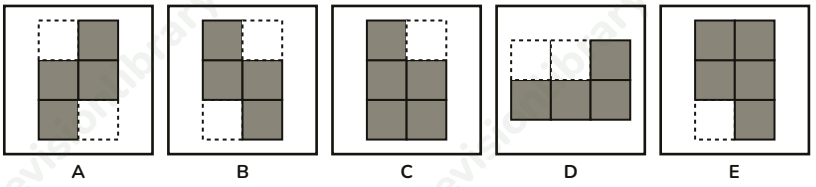
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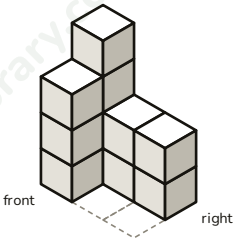


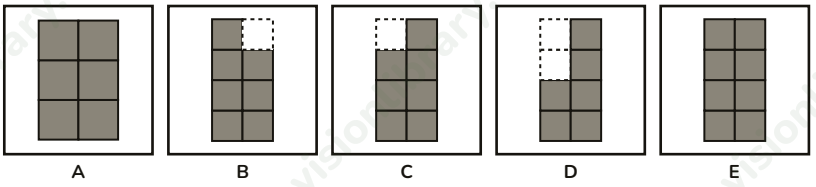
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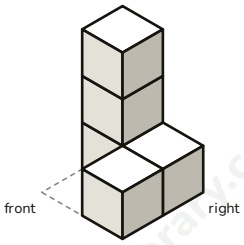


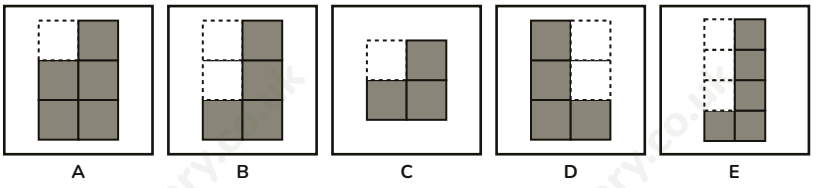
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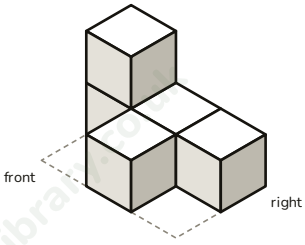


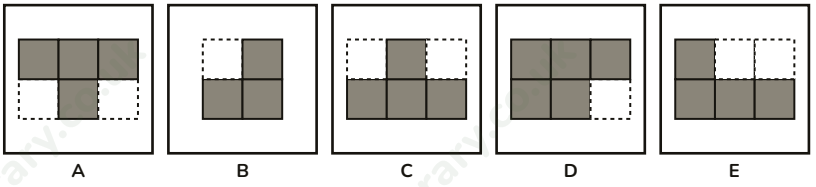
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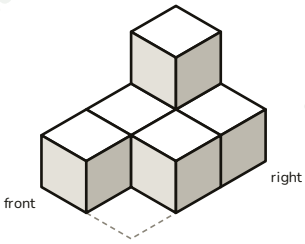
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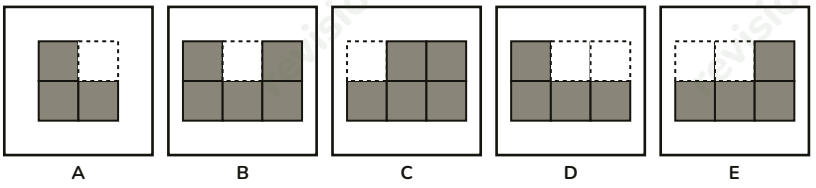




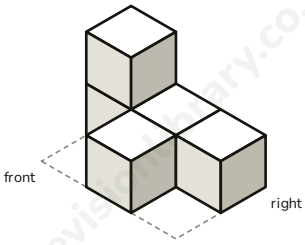
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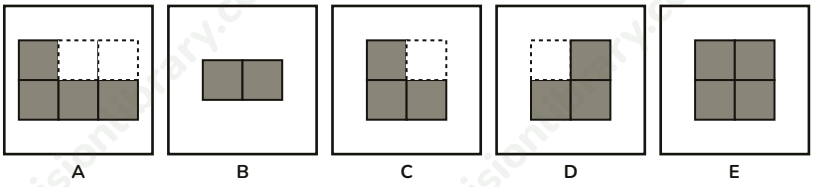
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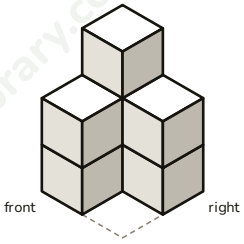


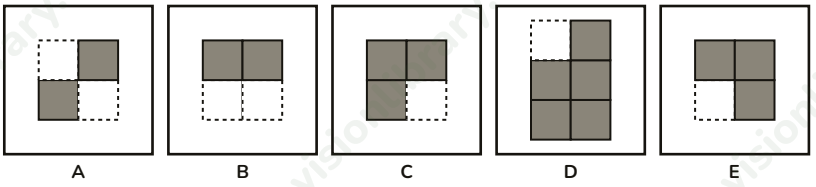
71





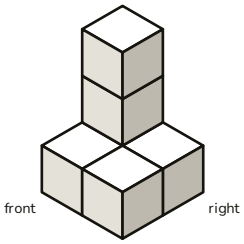
72 Rule: every cube sits on the table or on another cube (nothing floats), every stack of cubes can be seen from above in the picture (no stack is hidden behind another), and a cube you cannot see is always one that is needed to hold up the cubes you can. Look at the solid built from unit cubes. Which option, A to E, shows its plan (the view looking straight down from above, with the front of the solid at the bottom of the picture)? Grey squares are cubes seen in that view; white squares are gaps.

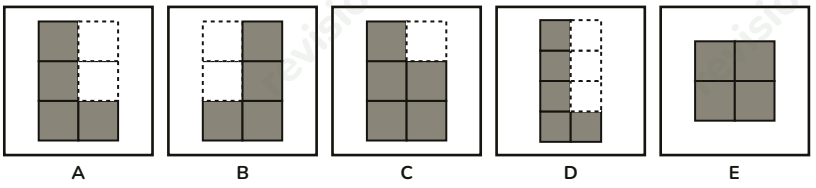




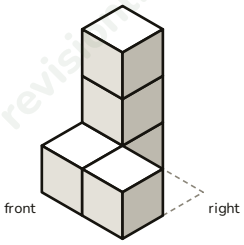
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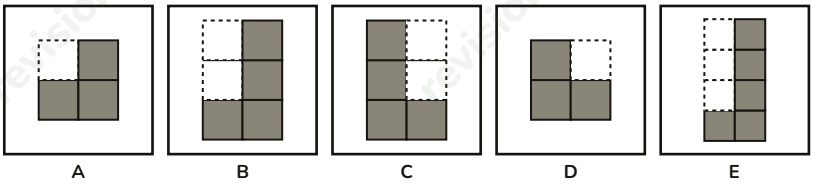
73 Rule: every cube sits on the table or on another cube (nothing floats), every stack of cubes can be seen from above in the picture (no stack is hidden behind another), and a cube you cannot see is always one that is needed to hold up the cubes you can. Look at the solid built from unit cubes. Which option, A to E, shows its front elevation (the view looking straight at the front of the solid)? Grey squares are cubes seen in that view; white squares are gaps.





74 Rule: every cube sits on the table or on another cube (nothing floats), every stack of cubes can be seen from above in the picture (no stack is hidden behind another), and a cube you cannot see is always one that is needed to hold up the cubes you can. Look at the solid built from unit cubes. Which option, A to E, shows its side elevation (the view looking straight at the right-hand side of the solid, front on the left)? Grey squares are cubes seen in that view; white squares are gaps.





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Mark scheme · 4.9 Plans and Elevations: 2-hour Pack

Question 1

Correct option identified (side): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3. Option A is wrong: it is a other view. Option B is wrong: it is a mirrored. Option D is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3.

Question 2

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, C2, C3. Blank: A2, B2, A3, B3. Option D is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. Option B is wrong: it is a other view. **B1**

Answer: A) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, C2, C3. Blank: A2, B2, A3, B3.

Question 3

Correct option identified (plan): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, B2, C2, A3, B3. Blank: C1, C3. Option A is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option E is wrong: it is a other view. **B1**

Answer: C) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, B2, C2, A3, B3. Blank: C1, C3.

Question 4

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: B1, C1, A2, B2. Blank: A1, C2. Option A is wrong: it is a mirrored. Option B is wrong: it is a other view. Option C is wrong: it is a one square wrong. Option E is wrong: it is a other view. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: B1, C1, A2, B2. Blank: A1, C2.

Question 5

Correct option identified (front): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, C2, A3. Blank: B3, C3. Option C is wrong: it is a one square wrong. Option D is wrong: it is a mirrored. Option E is wrong: it is a one square wrong. Option B is wrong: it is a other view. **B1**

Answer: A) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, C2, A3. Blank: B3, C3.

Question 6

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2. Option E is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option A is wrong: it is a upside-down. Option B is wrong: it is a other view. **B1**

Answer: C) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2.

Question 7

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, C1, A2, B2, C2. Blank: B1. Option A is wrong: it is a one square wrong. Option B is wrong: it is a other view. Option C is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. **B1**

Answer: E) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, C1, A2, B2, C2. Blank: B1.

Question 8

Correct option identified (front): Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, A3, A4. Blank: B3, B4. Option D is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option B is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. **B1**

Answer: A) Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, A3, A4. Blank: B3, B4.

Question 9

Correct option identified (plan): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1. Option C is wrong: it is a mirrored. Option E is wrong: it is a other view. Option A is wrong: it is a other view. Option B is wrong: it is a upside-down. **B1**

Answer: D) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1.

Question 10

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1. Option E is wrong: it is a other view. Option D is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option C is wrong: it is a upside-down. **B1**

Answer: B) Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1.

Question 11

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1. Option E is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option C is wrong: it is a other view. **B1**

Answer: A) Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1.

Question 12

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, C3. Blank: A2, A3, B3. Option B is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option C is wrong: it is a mirrored. Option A is wrong: it is a one square wrong. **B1**

Answer: D) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, C3. Blank: A2, A3, B3.

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Question 13

Correct option identified (side): Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, B3, C3, C4. Blank: A2, A3, A4, B4. Option A is wrong: it is a mirrored. Option E is wrong: it is a other view. Option D is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. **B1**

Answer: C) Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, B3, C3, C4. Blank: A2, A3, A4, B4.

Question 14

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3, B3. Blank: B2. Option A is wrong: it is a other view. Option B is wrong: it is a mirrored. Option D is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3, B3. Blank: B2.

Question 15

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1. Option E is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option B is wrong: it is a other view. Option A is wrong: it is a one square wrong. **B1**

Answer: C) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1.

Question 16

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1. Option B is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option D is wrong: it is a other view. **B1**

Answer: A) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1.

Question 17

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1. Option A is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option B is wrong: it is a upside-down. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1.

Question 18

Correct option identified (front): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, A2. Blank: B2. Option B is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option E is wrong: it is a other view. **B1**

Answer: A) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, A2. Blank: B2.

Question 19

Correct option identified (front): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3. Option E is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option D is wrong: it is a other view. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3.

Question 20

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1. Option A is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option D is wrong: it is a upside-down. **B1**

Answer: E) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1.

Question 21

Correct option identified (front): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, C2, A3, B3. Blank: C3. Option A is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option C is wrong: it is a mirrored. Option E is wrong: it is a one square wrong. **B1**

Answer: D) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, C2, A3, B3. Blank: C3.

Question 22

Correct option identified (front): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, A3, B3. Blank: C2, C3. Option E is wrong: it is a one square wrong. Option A is wrong: it is a mirrored. Option D is wrong: it is a one square wrong. Option B is wrong: it is a other view. **B1**

Answer: C) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, A3, B3. Blank: C2, C3.

Question 23

Correct option identified (side): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, B2, C2. Blank: A2. Option D is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. Option B is wrong: it is a other view. Option C is wrong: it is a one square wrong. **B1**

Answer: A) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, B2, C2. Blank: A2.

Question 24

Correct option identified (side): Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, B3, B4. Blank: A3, A4. Option D is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option A is wrong: it is a other view. **B1**

Answer: E) Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, B3, B4. Blank: A3, A4.

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Question 25

Correct option identified (front): Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, A3, A4. Blank: B2, C2, B3, C3, B4, C4. Option A is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option D is wrong: it is a other view. **B1**

Answer: C) Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, A3, A4. Blank: B2, C2, B3, C3, B4, C4.

Question 26

Correct option identified (plan): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1. Option C is wrong: it is a other view. Option B is wrong: it is a mirrored. Option A is wrong: it is a other view. Option E is wrong: it is a upside-down. **B1**

Answer: D) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1.

Question 27

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, A2, B2, C2. Blank: B1, C1. Option E is wrong: it is a one square wrong. Option B is wrong: it is a upside-down. Option C is wrong: it is a one square wrong. Option D is wrong: it is a other view. **B1**

Answer: A) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, A2, B2, C2. Blank: B1, C1.

Question 28

Correct option identified (front): Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, A3, A4. Blank: B2, B3, B4. Option C is wrong: it is a other view. Option D is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. **B1**

Answer: E) Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, A3, A4. Blank: B2, B3, B4.

Question 29

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, A2, B2, C2. Blank: B1, C1. Option A is wrong: it is a one square wrong. Option B is wrong: it is a mirrored. Option C is wrong: it is a other view. Option E is wrong: it is a other view. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, A2, B2, C2. Blank: B1, C1.

Question 30

Correct option identified (side): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, B2, B3. Blank: A3. Option D is wrong: it is a one square wrong. Option A is wrong: it is a mirrored. Option E is wrong: it is a one square wrong. Option B is wrong: it is a other view. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, B2, B3. Blank: A3.

Question 31

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, B3. Option D is wrong: it is a one square wrong. Option E is wrong: it is a upside-down. Option B is wrong: it is a other view. Option C is wrong: it is a other view. **B1**

Answer: A) Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, B3.

Question 32

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, B3. Option C is wrong: it is a one square wrong. Option D is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option A is wrong: it is a mirrored. **B1**

Answer: B) Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, B3.

Question 33

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1. Option A is wrong: it is a one square wrong. Option B is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1.

Question 34

Correct option identified (side): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, C2. Blank: A2, B2. Option A is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option D is wrong: it is a other view. **B1**

Answer: E) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, C2. Blank: A2, B2.

Question 35

Correct option identified (front): Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, A3, A4. Blank: C2, B3, C3, B4, C4. Option E is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option B is wrong: it is a other view. **B1**

Answer: D) Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, A3, A4. Blank: C2, B3, C3, B4, C4.

Question 36

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, C2, C3. Blank: A2, B2, A3, B3. Option B is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option D is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: A) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, C2, C3. Blank: A2, B2, A3, B3.

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Question 37

Correct option identified (side): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2. Option D is wrong: it is a one square wrong. Option E is wrong: it is a other view. Option B is wrong: it is a one square wrong. Option A is wrong: it is a mirrored. **B1**

Answer: C) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2.

Question 38

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1. Option C is wrong: it is a one square wrong. Option D is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. **B1**

Answer: E) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1.

Question 39

Correct option identified (side): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3. Option A is wrong: it is a mirrored. Option B is wrong: it is a other view. Option D is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3.

Question 40

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, C3. Blank: A2, A3, B3. Option A is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option C is wrong: it is a mirrored. Option E is wrong: it is a other view. **B1**

Answer: D) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, C3. Blank: A2, A3, B3.

Question 41

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, B3, C3. Blank: A2, A3. Option A is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. **B1**

Answer: E) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, B3, C3. Blank: A2, A3.

Question 42

Correct option identified (front): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2. Option E is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option B is wrong: it is a mirrored. **B1**

Answer: A) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2.

Question 43

Correct option identified (front): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, B2, A3. Blank: B3. Option A is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. Option B is wrong: it is a other view. Option D is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, B2, A3. Blank: B3.

Question 44

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, A3, B3. Blank: B1, B2. Option C is wrong: it is a one square wrong. Option B is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. **B1**

Answer: A) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, A3, B3. Blank: B1, B2.

Question 45

Correct option identified (plan): Grid 2 columns by 2 rows (bottom row first). Shaded: B1, A2, B2. Blank: A1. Option A is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option D is wrong: it is a one square wrong. Option E is wrong: it is a other view. **B1**

Answer: B) Grid 2 columns by 2 rows (bottom row first). Shaded: B1, A2, B2. Blank: A1.

Question 46

Correct option identified (front): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2. Option B is wrong: it is a other view. Option C is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2.

Question 47

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, A2, B2, C2. Blank: B1, C1. Option A is wrong: it is a upside-down. Option E is wrong: it is a other view. Option B is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, A2, B2, C2. Blank: B1, C1.

Question 48

Correct option identified (front): Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, A3, A4. Blank: C2, B3, C3, B4, C4. Option D is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option E is wrong: it is a mirrored. Option A is wrong: it is a one square wrong. **B1**

Answer: B) Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, A3, A4. Blank: C2, B3, C3, B4, C4.

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Question 49

Correct option identified (front): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3. Option A is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. Option E is wrong: it is a other view. Option D is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3.

Question 50

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, C2, C3. Blank: A2, B2, A3, B3. Option D is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option B is wrong: it is a other view. **B1**

Answer: E) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, C2, C3. Blank: A2, B2, A3, B3.

Question 51

Correct option identified (front): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3. Option B is wrong: it is a mirrored. Option A is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. Option D is wrong: it is a other view. **B1**

Answer: C) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3.

Question 52

Correct option identified (side): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, B2, C2. Blank: A2. Option D is wrong: it is a other view. Option A is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: B) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, B2, C2. Blank: A2.

Question 53

Correct option identified (side): Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, A3, B3, B4. Blank: A4. Option D is wrong: it is a one square wrong. Option B is wrong: it is a other view. Option C is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. **B1**

Answer: E) Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, A3, B3, B4. Blank: A4.

Question 54

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: C1, A2, B2, C2. Blank: A1, B1. Option A is wrong: it is a mirrored. Option B is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: C1, A2, B2, C2. Blank: A1, B1.

Question 55

Correct option identified (plan): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1. Option C is wrong: it is a other view. Option D is wrong: it is a upside-down. Option B is wrong: it is a mirrored. Option A is wrong: it is a one square wrong. **B1**

Answer: E) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1.

Question 56

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2. Option A is wrong: it is a upside-down. Option B is wrong: it is a other view. Option C is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: D) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, A2, B2. Blank: C2.

Question 57

Correct option identified (front): Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, C2, A3, A4. Blank: B3, C3, B4, C4. Option D is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. **B1**

Answer: B) Grid 3 columns by 4 rows (bottom row first). Shaded: A1, B1, C1, A2, B2, C2, A3, A4. Blank: B3, C3, B4, C4.

Question 58

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1. Option C is wrong: it is a mirrored. Option B is wrong: it is a upside-down. Option E is wrong: it is a other view. Option D is wrong: it is a other view. **B1**

Answer: A) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, B2, A3, B3. Blank: B1.

Question 59

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, C3. Blank: A2, A3, B3. Option A is wrong: it is a mirrored. Option E is wrong: it is a other view. Option D is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. **B1**

Answer: C) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, C3. Blank: A2, A3, B3.

Question 60

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1. Option D is wrong: it is a other view. Option A is wrong: it is a upside-down. Option C is wrong: it is a mirrored. Option B is wrong: it is a other view. **B1**

Answer: E) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1.

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Question 61

Correct option identified (front): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3. Option A is wrong: it is a other view. Option B is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. Option E is wrong: it is a one square wrong. **B1**

Answer: D) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3.

Question 62

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, A3, B3. Blank: B1, B2. Option E is wrong: it is a upside-down. Option B is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option D is wrong: it is a mirrored. **B1**

Answer: A) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, A2, A3, B3. Blank: B1, B2.

Question 63

Correct option identified (side): Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, B3, C3. Blank: A2, A3. Option D is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option B is wrong: it is a mirrored. **B1**

Answer: A) Grid 3 columns by 3 rows (bottom row first). Shaded: A1, B1, C1, B2, C2, B3, C3. Blank: A2, A3.

Question 64

Correct option identified (side): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2. Option B is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option E is wrong: it is a mirrored. **B1**

Answer: D) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2.

Question 65

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3, B3. Blank: B2. Option A is wrong: it is a other view. Option D is wrong: it is a mirrored. Option C is wrong: it is a other view. Option B is wrong: it is a one square wrong. **B1**

Answer: E) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3, B3. Blank: B2.

Question 66

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, B3. Option A is wrong: it is a upside-down. Option C is wrong: it is a one square wrong. Option D is wrong: it is a other view. Option E is wrong: it is a one square wrong. **B1**

Answer: B) Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, B3.

Question 67

Correct option identified (side): Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, A3, B3, B4. Blank: A4. Option B is wrong: it is a mirrored. Option E is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. **B1**

Answer: C) Grid 2 columns by 4 rows (bottom row first). Shaded: A1, B1, A2, B2, A3, B3, B4. Blank: A4.

Question 68

Correct option identified (side): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3. Option D is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option A is wrong: it is a one square wrong. **B1**

Answer: B) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3.

Question 69

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1. Option D is wrong: it is a one square wrong. Option E is wrong: it is a other view. Option B is wrong: it is a other view. Option C is wrong: it is a upside-down. **B1**

Answer: A) Grid 3 columns by 2 rows (bottom row first). Shaded: B1, A2, B2, C2. Blank: A1, C1.

Question 70

Correct option identified (side): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, C2. Blank: A2, B2. Option D is wrong: it is a mirrored. Option C is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option A is wrong: it is a other view. **B1**

Answer: E) Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, C1, C2. Blank: A2, B2.

Question 71

Correct option identified (side): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2. Option A is wrong: it is a other view. Option C is wrong: it is a mirrored. Option E is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. **B1**

Answer: D) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2.

Question 72

Correct option identified (plan): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1. Option A is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option D is wrong: it is a other view. Option E is wrong: it is a mirrored. **B1**

Answer: C) Grid 2 columns by 2 rows (bottom row first). Shaded: A1, A2, B2. Blank: B1.

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Question 73

Correct option identified (front): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3. Option D is wrong: it is a one square wrong. Option C is wrong: it is a one square wrong. Option B is wrong: it is a mirrored. Option E is wrong: it is a other view. **B1**

Answer: A) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3. Blank: B2, B3.

Question 74

Correct option identified (side): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3. Option D is wrong: it is a other view. Option E is wrong: it is a one square wrong. Option C is wrong: it is a other view. Option A is wrong: it is a one square wrong. **B1**

Answer: B) Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, B2, B3. Blank: A2, A3.

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