4.9 Plans and Elevations: Test Pack

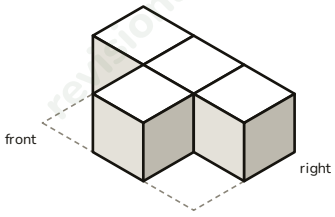
GL ASSESSMENT GL-EP.N11 · Calculators not allowed · about 60 minutes

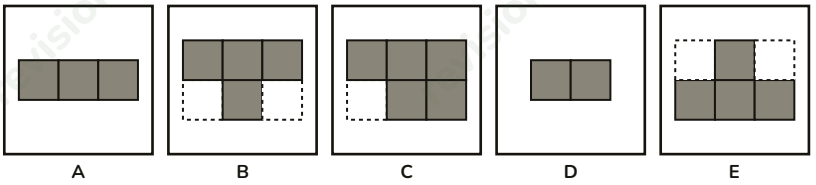
Total Marks

Name: _____ Date: ____ / ____ / _____

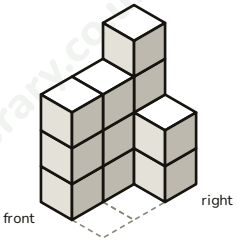
Answer ALL questions. Show all your working.

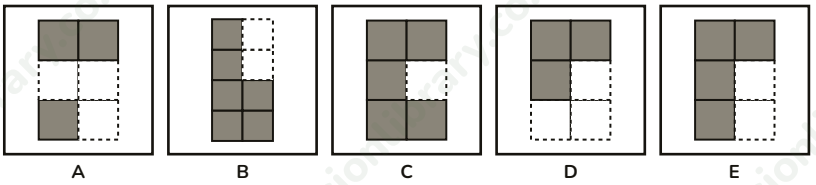
1 Rule: every cube sits on the table or on another cube (nothing floats), every stack of cubes can be seen from above in the picture (no stack is hidden behind another), and a cube you cannot see is always one that is needed to hold up the cubes you can. Look at the solid built from unit cubes. Which 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.



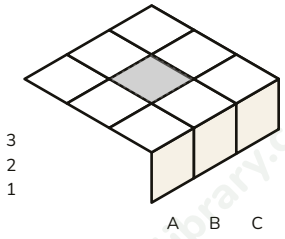


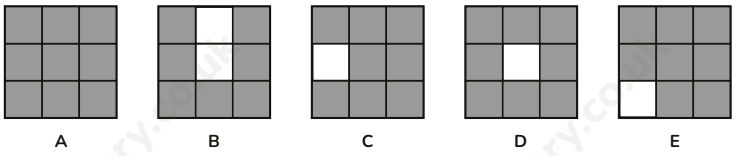
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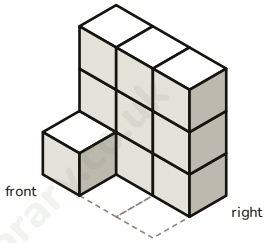


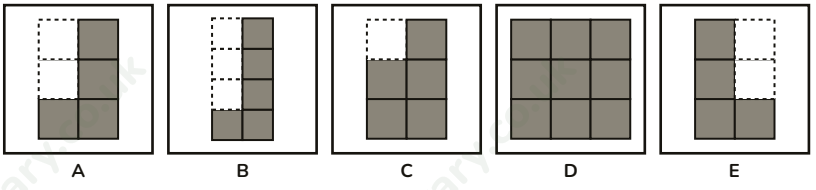
3 Look at the solid built from unit cubes. Which option shows its plan (the view looking straight down from above)?





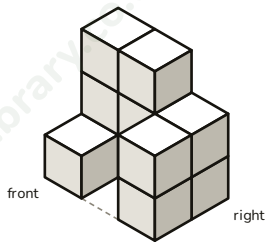
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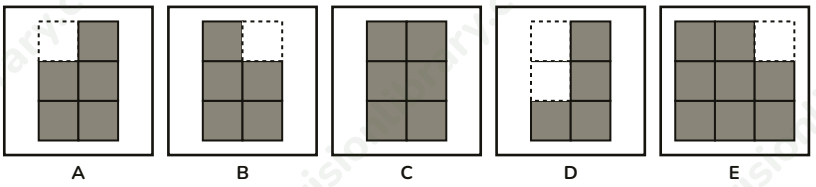




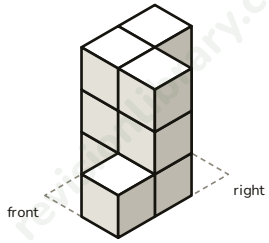
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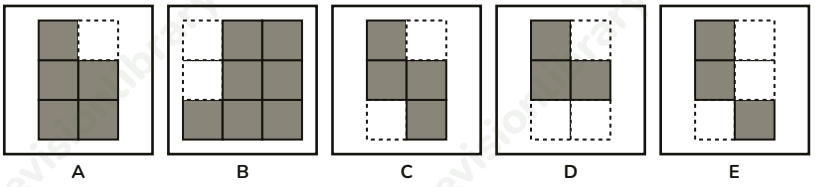
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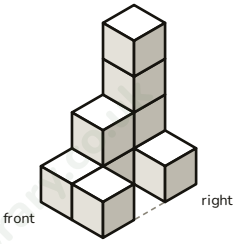


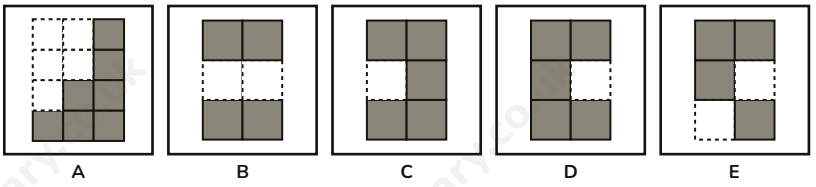
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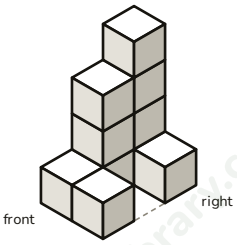


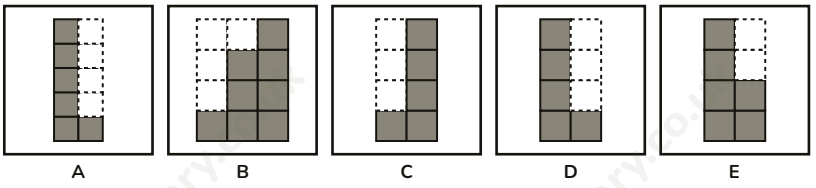
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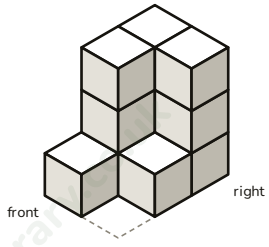


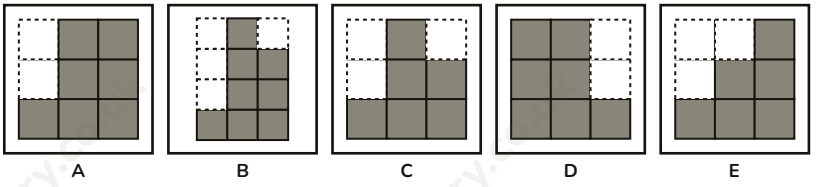
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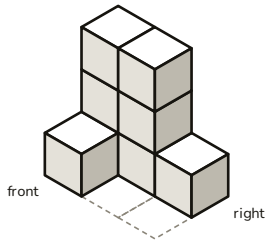
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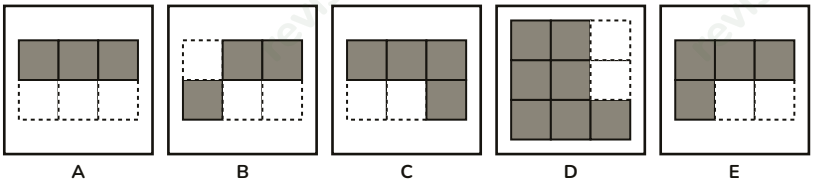




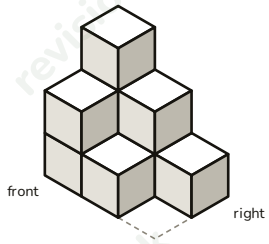
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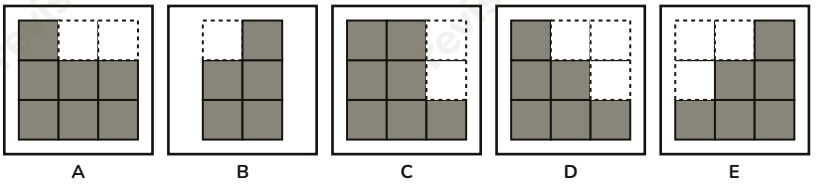
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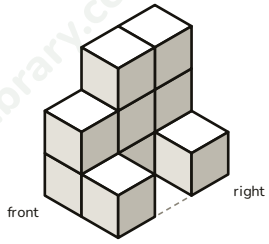


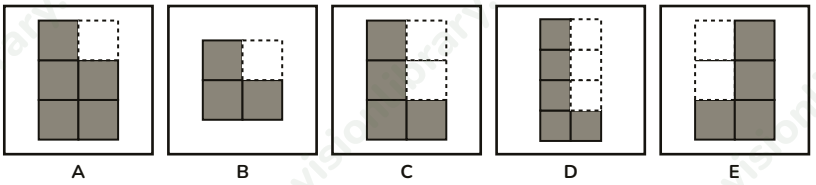
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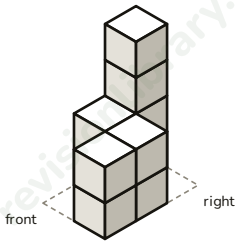


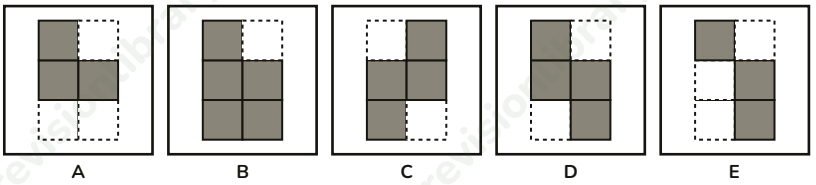
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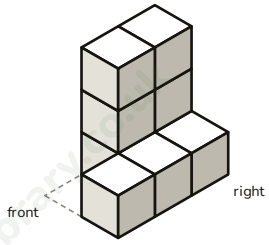


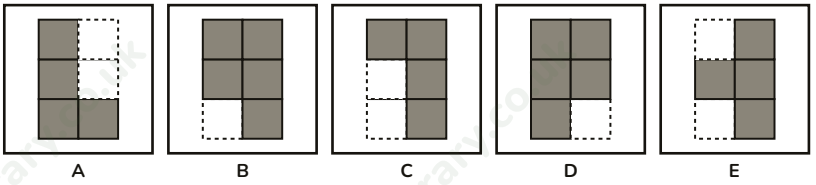
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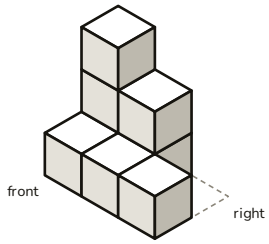
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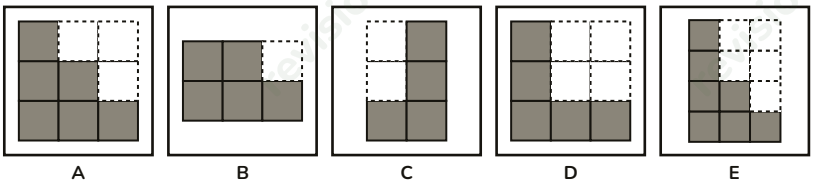




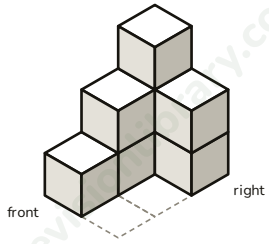
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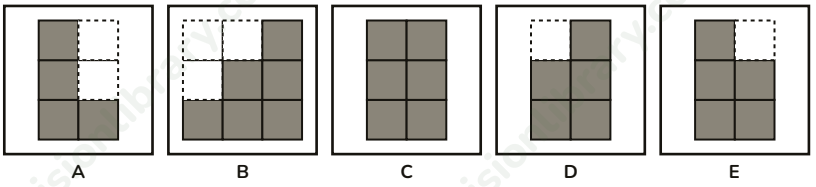
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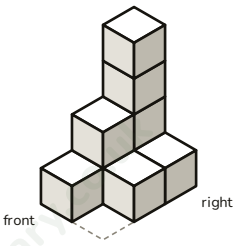


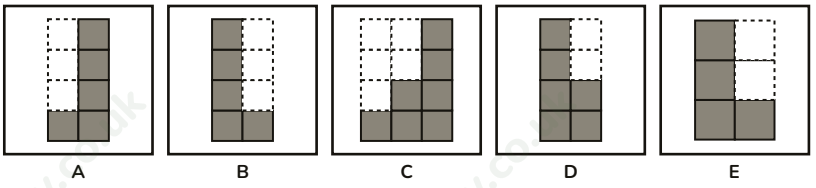
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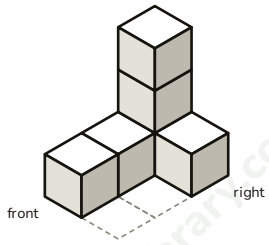


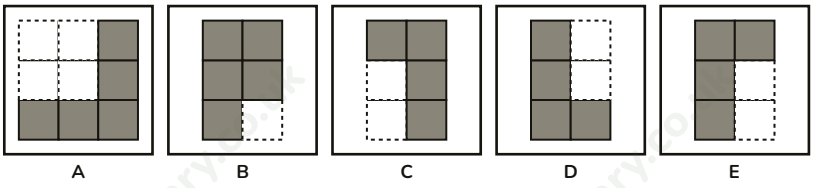
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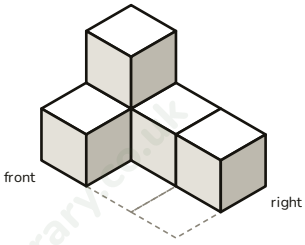


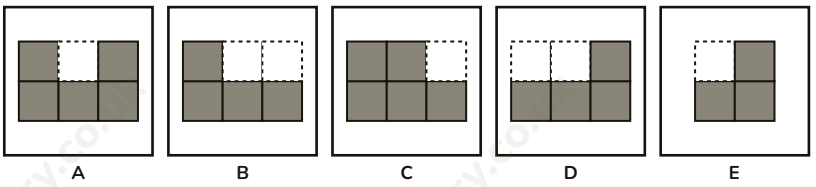
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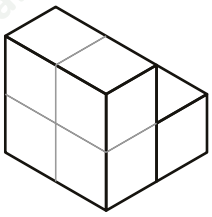
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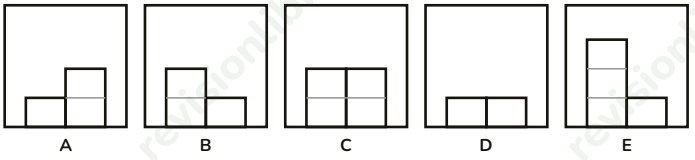




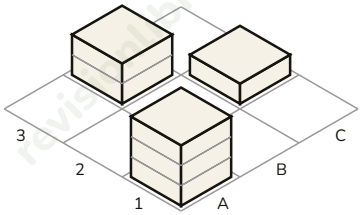
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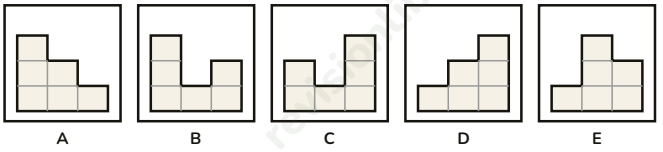
20 Look at the solid built from unit cubes. Which option shows its side elevation (the view looking straight at the right-hand side of the solid)?



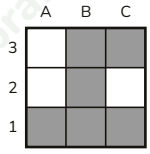


21 A solid built from unit cubes is rotated 90 degrees on the spot, so that the face which used to be its right-hand side now faces the front. When this happens, the new front elevation is identical to the old side elevation, read in the same order (row 1, the side nearest the original viewer, stays on the left). Using the solid shown, which option shows the NEW front elevation after this rotation?

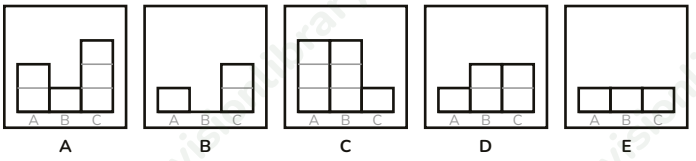




22 The plan of a solid built from unit cubes is shown below (3 columns A, B, C by 3 rows). Shaded cells: A1, B1, C1, B2, B3, C3. Blank cells: A2, A3, C2. Which of the following CANNOT be the front elevation of this solid?

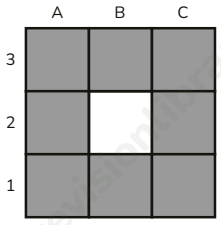


Plan

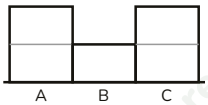


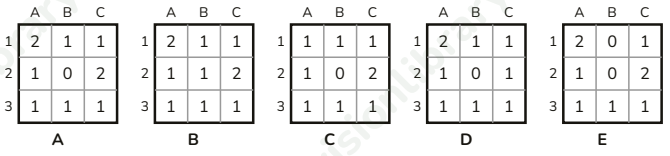
23 The plan and front elevation of a solid built from unit cubes are shown below (3 by 3 base grid). Plan: blank cell only at the centre (B2); all 8 other cells shaded. Front elevation: 3 adjoining bars left to right, heights 2, 1, 2. Which of the following solids (given as a full set of 9 stack heights) could produce both of these views?

Plan



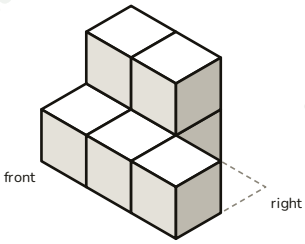
Front Elevation

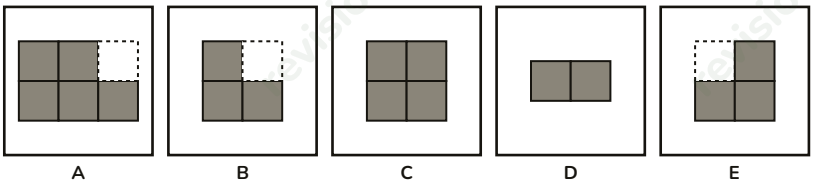




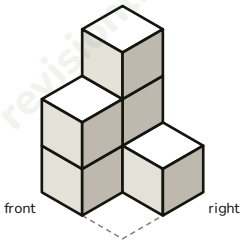
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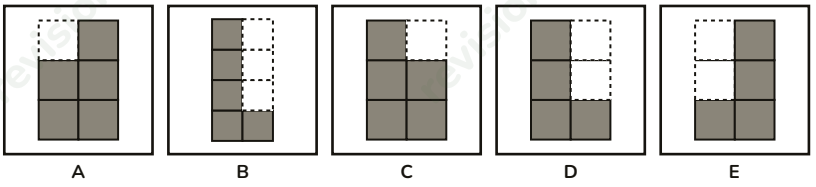
24 Rule: every cube sits on the table or on another cube (nothing floats), every stack of cubes can be seen from above in the picture (no stack is hidden behind another), and a cube you cannot see is always one that is needed to hold up the cubes you can. Look at the solid built from unit cubes. Which 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.



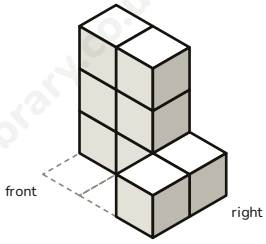


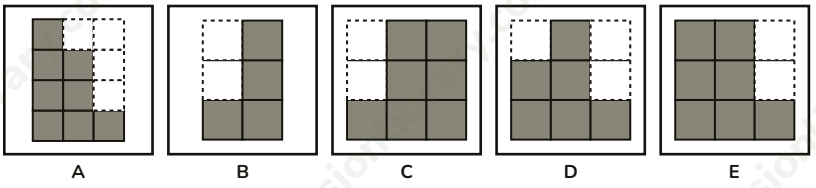
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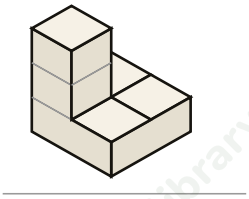


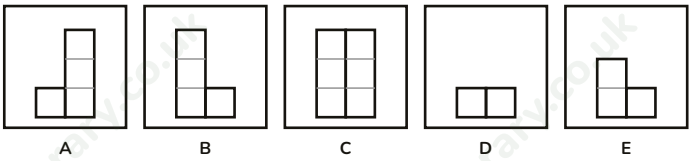
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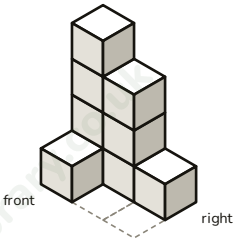


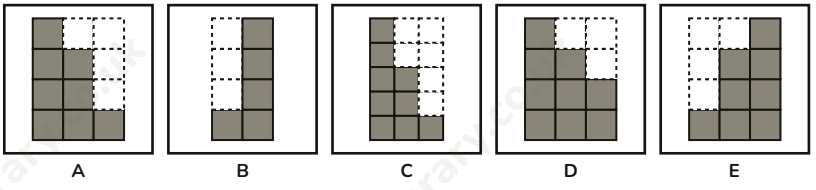
27 Look at the solid built from unit cubes. Which option shows its front elevation (the view looking straight at the front of the solid)?





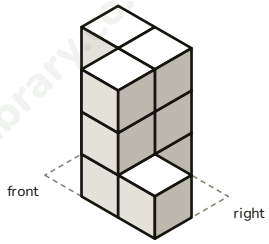
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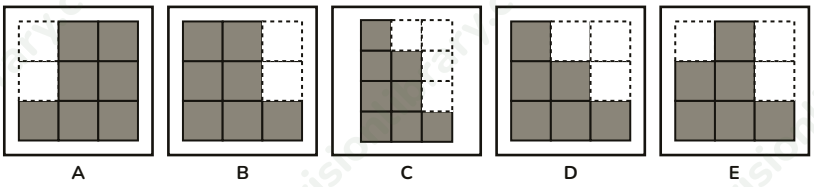




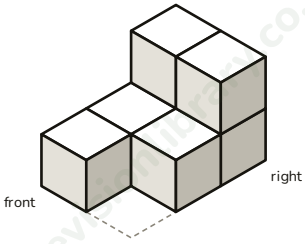
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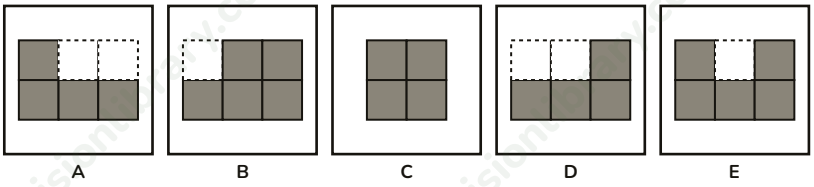
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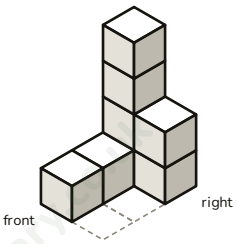


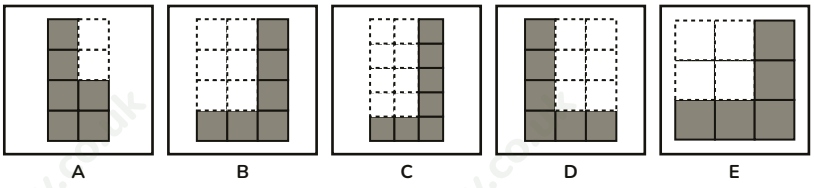
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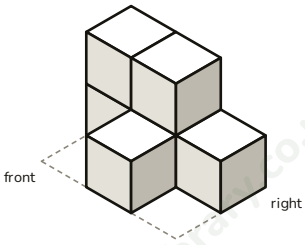


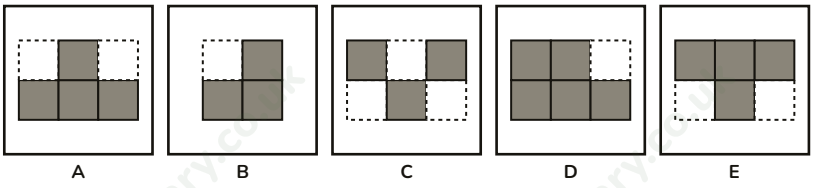
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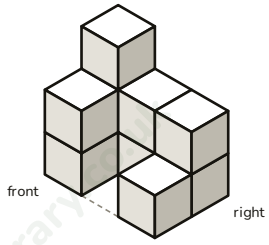


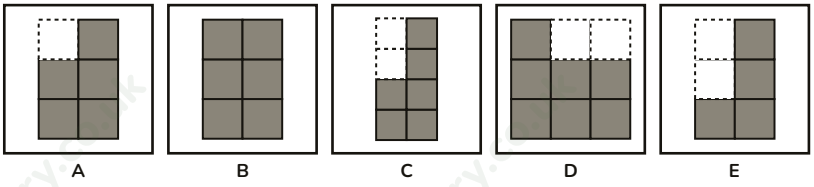
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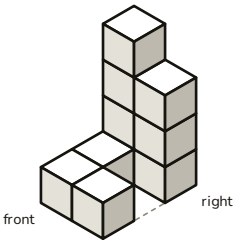
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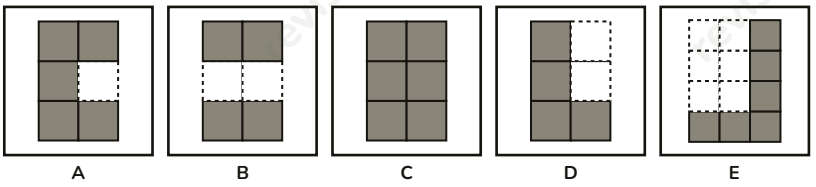




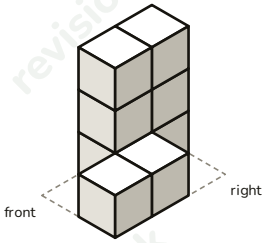
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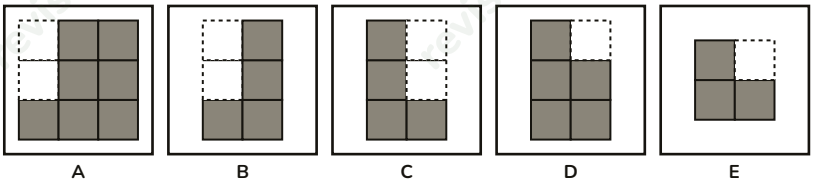
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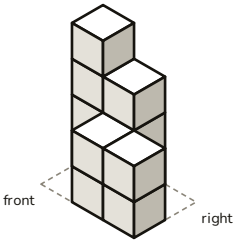


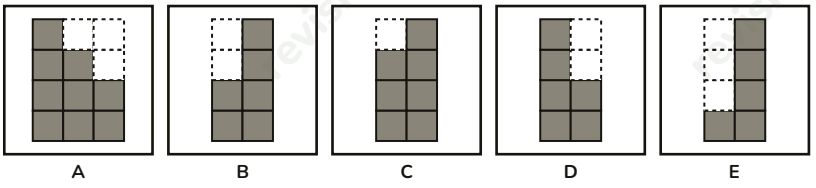
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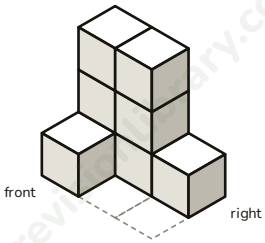


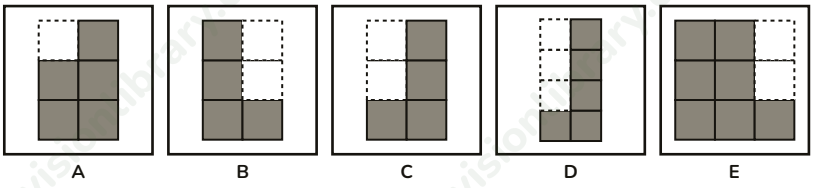
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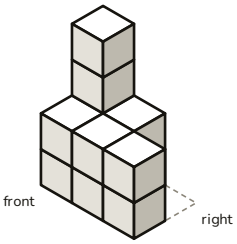
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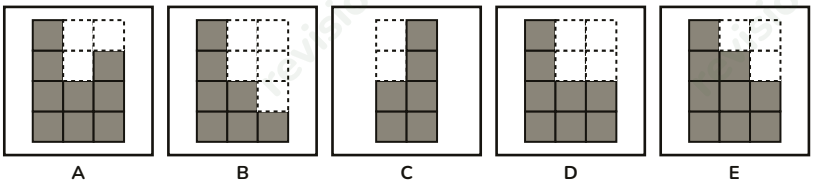




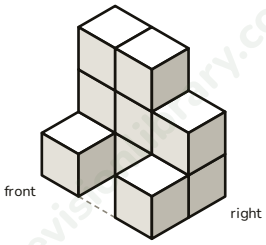
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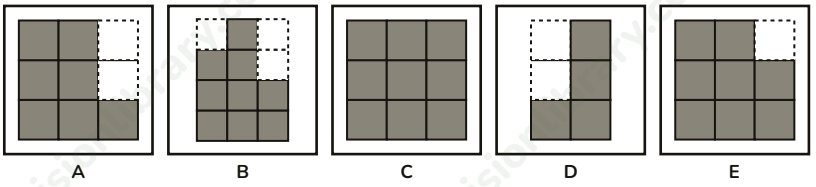
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Mark scheme · 4.9 Plans and Elevations: Test Pack

Question 1

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

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 A is wrong: it is a one square wrong. Option D is wrong: it is a one square wrong. **B1**

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

Question 3

Correct option identified - the only bare square in the grid is the centre square B2, giving a picture-frame shaped plan **B1**

Answer: D

Question 4

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

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

Question 5

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

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

Question 6

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, 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 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: B1, A2, B2, A3. Blank: A1, B3.

Question 7

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 E 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. **B1**

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

Question 8

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

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

Question 9

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 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 one square wrong. **B1**

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

Question 10

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 D is wrong: it is a other view. Option C is wrong: it is a mirrored. Option B is wrong: it is a one square wrong. **B1**

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

Question 11

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

Question 12

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 A is wrong: it is a one square wrong. Option B is wrong: it is a one square wrong. Option E is wrong: it is a mirrored. **B1**

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

Question 13

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: B1, A2, B2, A3. Blank: A1, 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 C is wrong: it is a mirrored. **B1**

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

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Question 14

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

Question 15

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

Question 16

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

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

Question 17

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 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. **B1**

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

Question 18

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 mirrored. Option D is wrong: it is a upside-down. 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 3 rows (bottom row first). Shaded: A1, A2, A3, B3. Blank: B1, B2.

Question 19

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

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

Question 20

Correct option identified (bars 2, 1 oe) - the tallest stack in row 1 is 2 (A = 2, B = 2) and the tallest stack in row 2 is 1 (A = 1, B = 1) **B1**

Answer: B

Question 21

Correct option identified (bars 3, 1, 2 oe) - the new front elevation equals the old side elevation, which is row 1 = 3, row 2 = 1, row 3 = 2 **B1**

Answer: B

Question 22

Correct option identified - option B gives column B a height of 0, but the plan shows column B has shaded (occupied) squares at B1, B2 and B3, so column B's front elevation bar must be at least 1 **B1**

Answer: B

Question 23

Correct option identified - only option A produces a plan with just the centre square blank and a front elevation of 2, 1, 2 at the same time; every other option contradicts one of the two given views **B1**

Answer: A

Question 24

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 mirrored. Option D is wrong: it is a one square wrong. Option A is wrong: it is a other view. Option C is wrong: it is a one square wrong. **B1**

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

Question 25

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 E 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. **B1**

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

Question 26

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 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 mirrored. 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, A2, B2, A3, B3. Blank: C2, C3.

Question 27

Correct option identified (bars 3, 1 oe) - the tallest stack in column A is 3 and the tallest stack in column B is 1 **B1**

Answer: B

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Question 28

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

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

Question 29

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 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 mirrored. **B1**

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

Question 30

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

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

Question 31

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

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

Question 32

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

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

Question 33

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

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

Question 34

Correct option identified (plan): Grid 2 columns by 3 rows (bottom row first). Shaded: A1, B1, A2, A3, B3. Blank: B2. 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. 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, B3. Blank: B2.

Question 35

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 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, B1, A2, A3. Blank: B2, B3.

Question 36

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

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

Question 37

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 one square wrong. Option B is wrong: it is a mirrored. Option E is wrong: it is a other view. Option A 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 38

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 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 one square wrong. Option A is wrong: it is a one square wrong. **B1**

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

Question 39

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 D 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. Option A is wrong: it is a one square wrong. **B1**

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

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