4.9 Plans and Elevations: 30-minute Pack

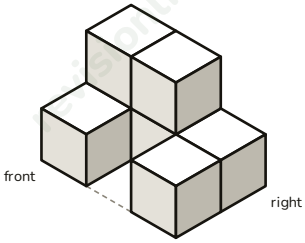
GL ASSESSMENT GL-EP.N11 · Calculators not allowed · about 30 minutes

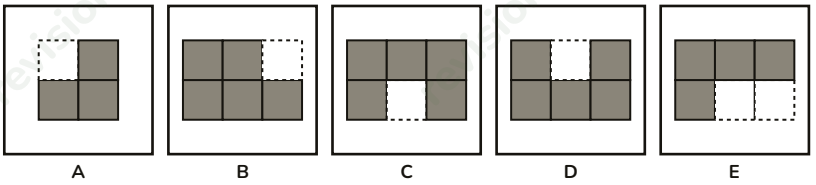
Total Marks

Name: _____ Date: ____ / ____ / _____

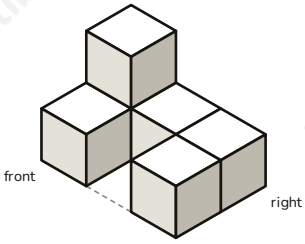
Answer ALL questions. Show all your working.

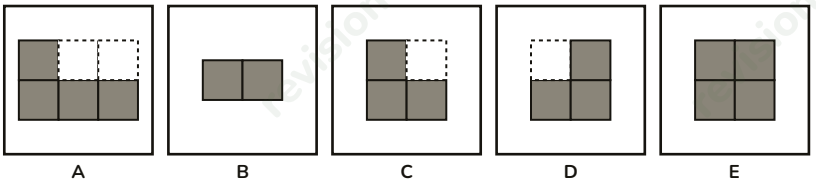
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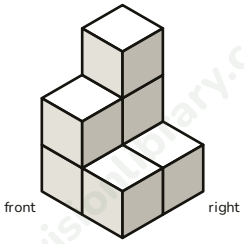


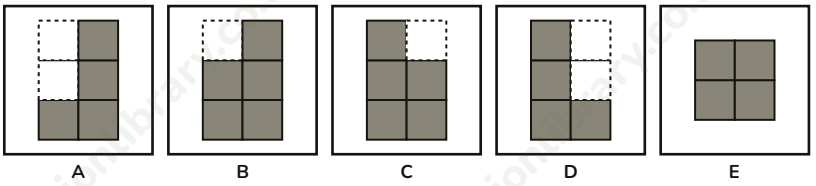
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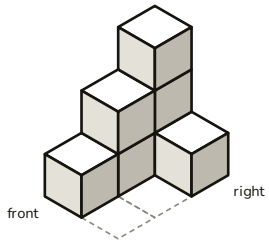
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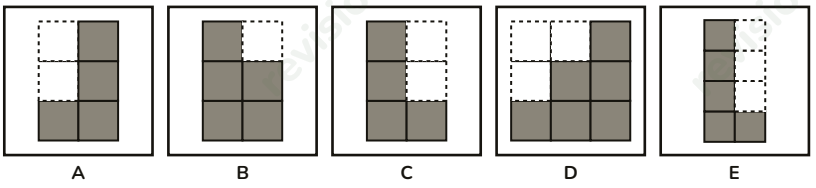




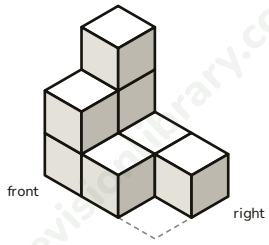
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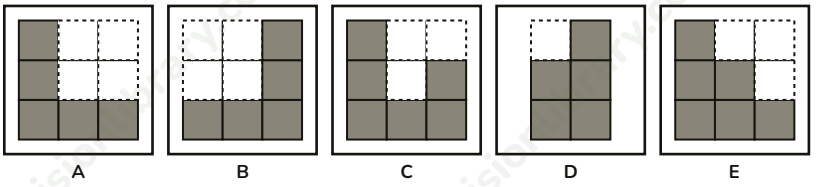
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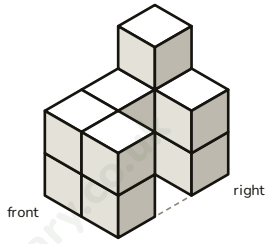


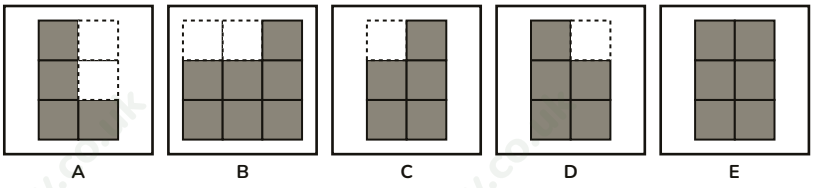
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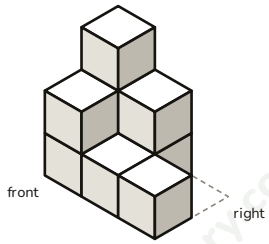


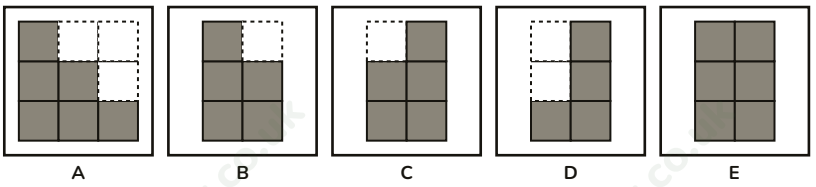
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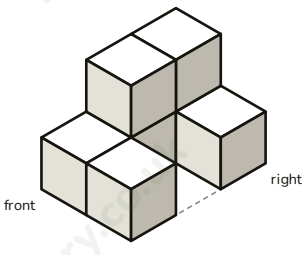


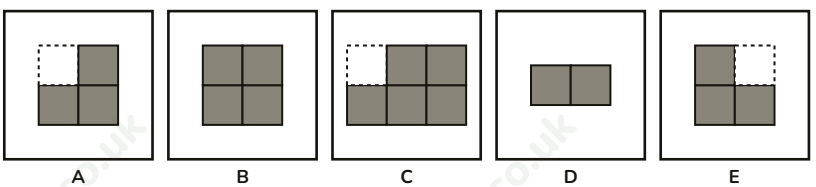
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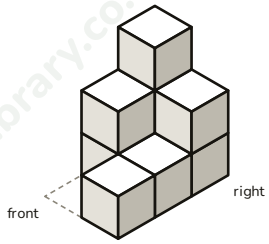
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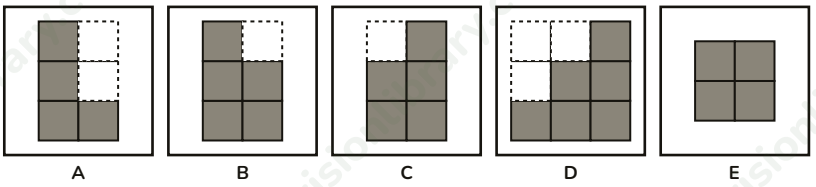




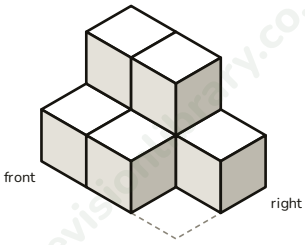
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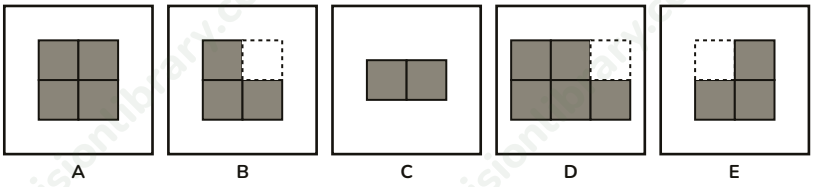
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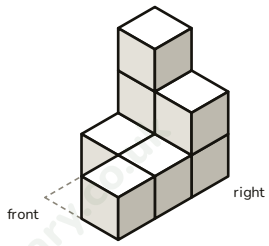


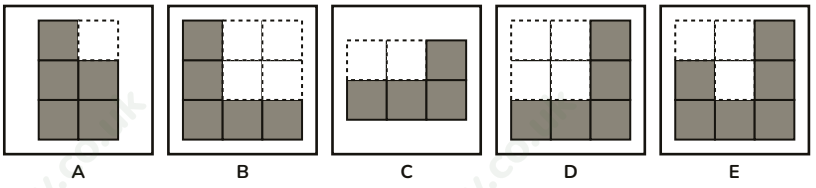
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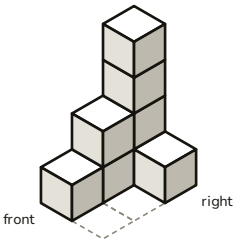


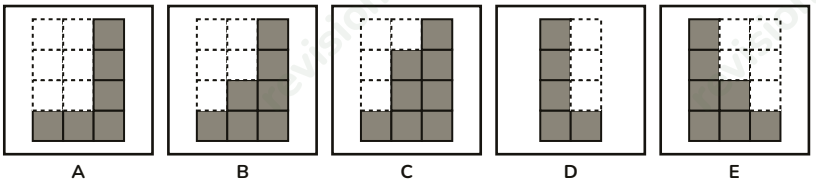
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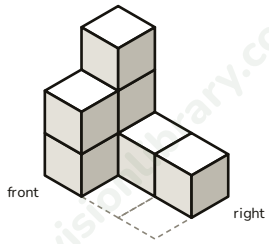


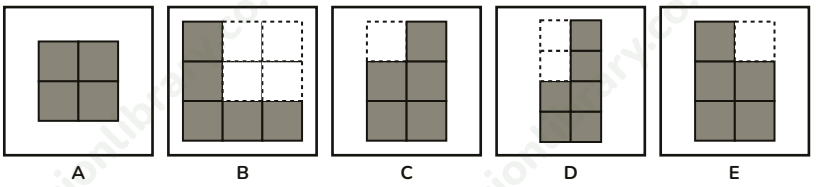
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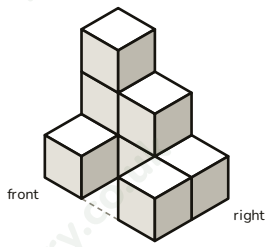


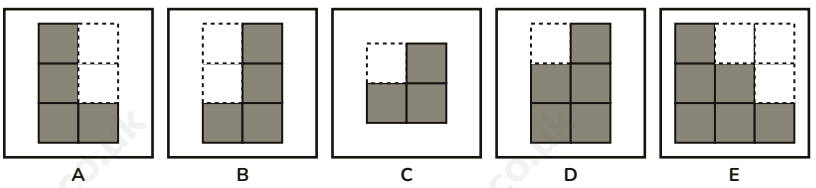
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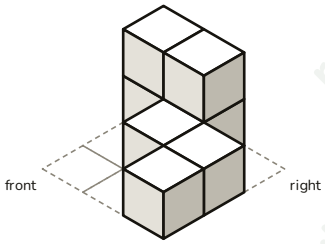
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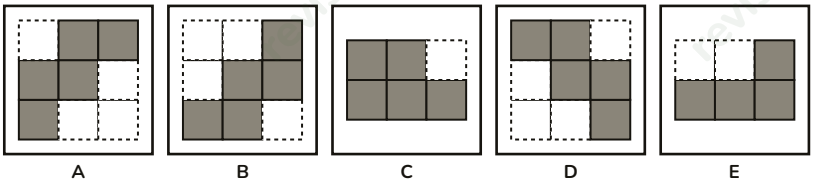




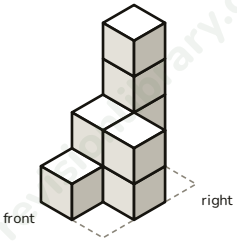
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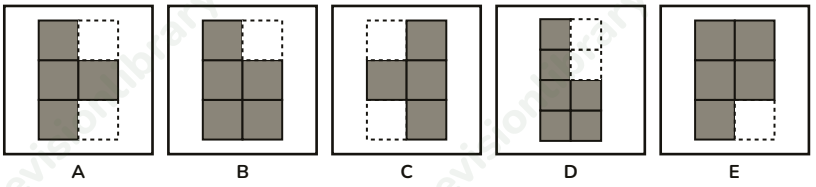
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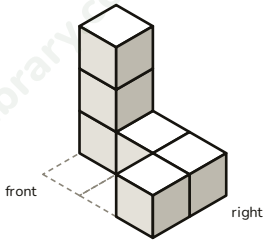


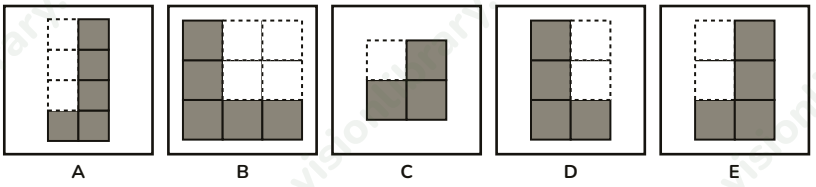
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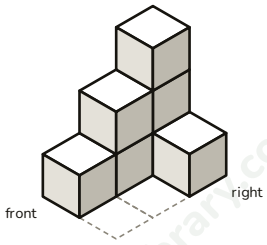


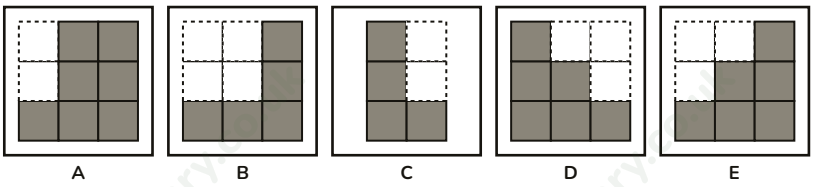
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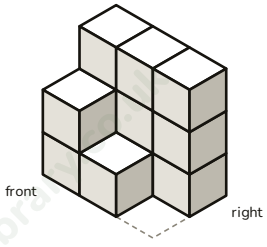


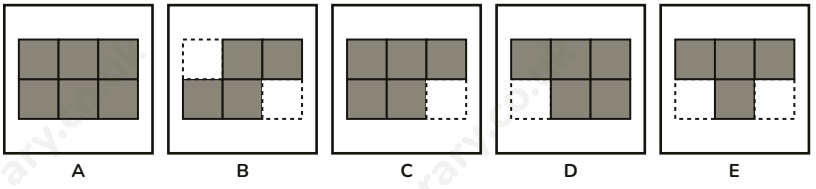
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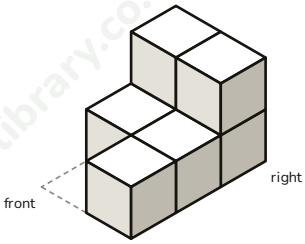
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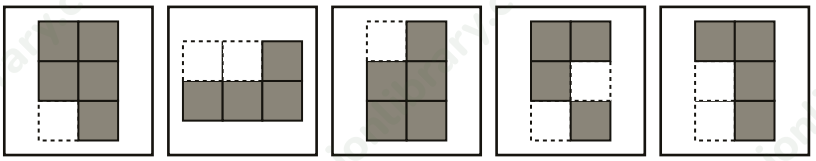




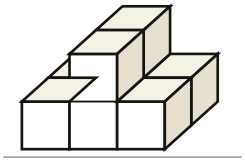
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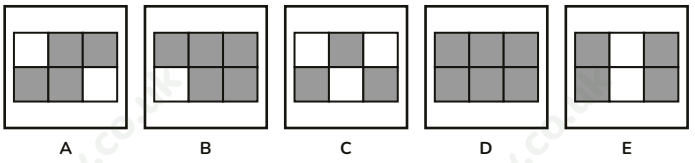
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21 Look at the solid built from unit cubes. Which option shows its plan (the view looking straight down from above)?





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Mark scheme · 4.9 Plans and Elevations: 30-minute Pack

Question 1

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 other view. Option B is wrong: it is a other view. Option D is wrong: it is a upside-down. Option E is wrong: it is a one square wrong. **B1**

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

Question 2

Correct option identified (side): Grid 2 columns by 2 rows (bottom row first). Shaded: A1, B1, B2. Blank: A2. Option C 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 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 3

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 other view. Option C is wrong: it is a mirrored. 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, A2, B2, B3. Blank: A3.

Question 4

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 D is wrong: it is a other view. 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. Blank: B2, B3.

Question 5

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

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

Question 6

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

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

Question 7

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

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

Question 8

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

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

Question 9

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

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

Question 10

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 one square wrong. 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 other view. **B1**

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

Question 11

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

Question 12

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

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Question 13

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 one square wrong. Option E is wrong: it is a mirrored. 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 14

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

Question 15

Correct option identified (plan): Grid 3 columns by 3 rows (bottom row first). Shaded: C1, B2, C2, A3, B3. Blank: A1, B1, A2, C3. Option A is wrong: it is a mirrored. Option B is wrong: it is a upside-down. 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 3 rows (bottom row first). Shaded: C1, B2, C2, A3, B3. Blank: A1, B1, A2, C3.

Question 16

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

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

Question 17

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

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

Question 18

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

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

Question 19

Correct option identified (plan): Grid 3 columns by 2 rows (bottom row first). Shaded: A1, B1, A2, B2, C2. Blank: C1. 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 mirrored. Option E 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 20

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

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

Question 21

Correct option identified - the plan only shows which squares have a cube standing on them, not how tall each stack is, so all 6 squares are shaded because none has height 0 **B1**

Answer: D

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