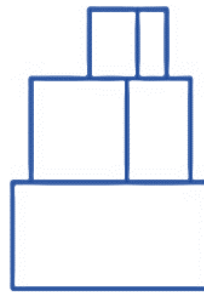
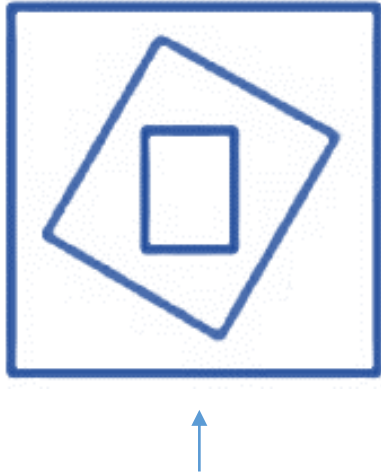
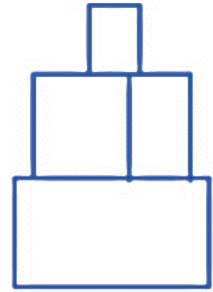


VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

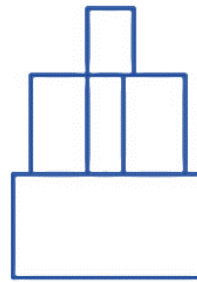
The figure shows the top view of an object. Identify the correct elevation looking in the direction of the arrow.



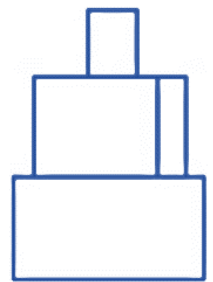
A



B



C



D

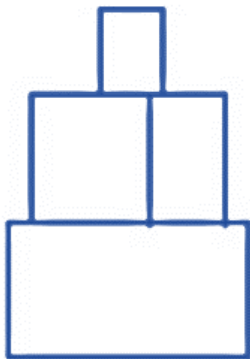
A. Option A

B. Option B

C. Option C

D. Option D

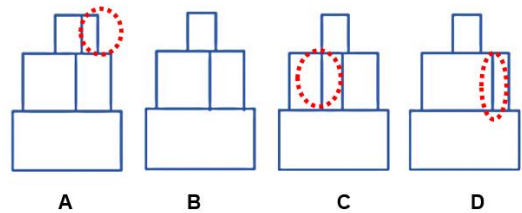
Answer key:



B.

Theory:

The lines inside the red circles are the lines which are not possible in the front view. So Option B is correct



A

B

C

D

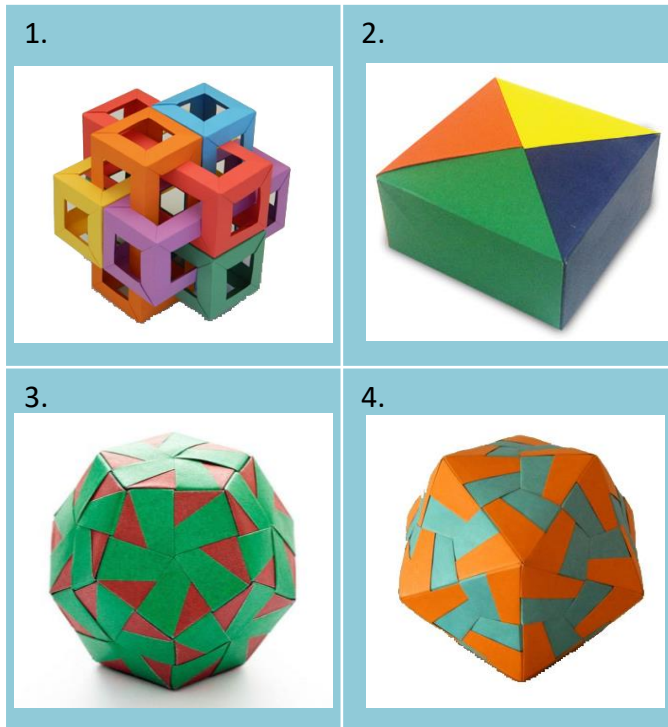
*Suggested Reading: Basics of Orthographic projections*

*" For a swift review of the subject, kindly consult the study materials available on the website"*

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
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Following solids are created by origami techniques. Identify the images that are created by the principle of interlocking.



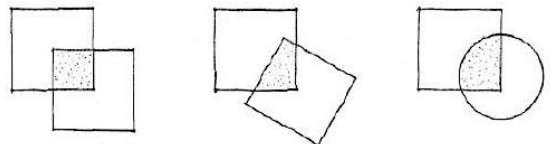
- |                    |                     |
|--------------------|---------------------|
| A. Options 1 and 2 | C. Option 3 and 4   |
| B. Options 2 and 3 | D. All of the above |

Answer key:

Theory:

**INTERLOCKING SPACES**

An interlocking spatial relationship results from the overlapping of two spatial fields and the emergence of a zone of shared space



D. All of the above

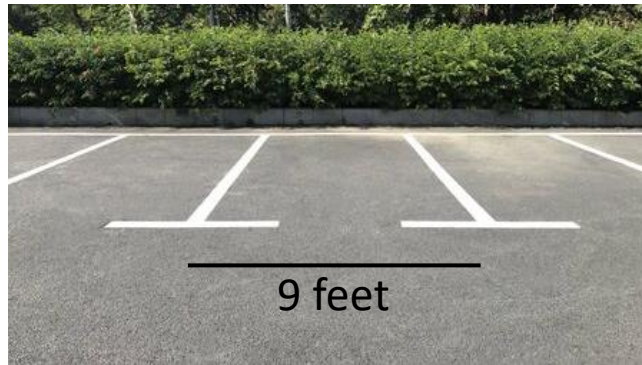
*Suggested Reading: organising principles*

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A rectangular parking space is marked out by painting three of its sides. If the length of the unpainted side is 9 feet, and the sum of the lengths of the painted sides is 37 feet, then what is the area of the parking space in square feet?



A. 146 Sq.ft

B. 126 Sq.ft

C. 222 Sq.ft

D. 356 Sq.ft

**Answer key:**

**B. 126 Sq.ft**

**Theory:**

*Given :*

*The one the side rectangle =9ft*

*The sum of remaining three sides= 37ft*

*Solution*

*The sum of remaining two sides = 28ft*

*The length of the other side rectangle is  $28/2 = 14ft$*

*So, The length and Width of the rectangle is  $14 \times 9 = 126 sq.ft$*

*(or)*

*Clearly, we have:  $l = 9$  and  $l + 2b = 37$  or  $b = 14$*

*Area =  $(l \times b) = (9 \times 14) sq. ft. = 126 sq. ft.$*

**Suggested Reading: Mensuration**

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The length of a room is double its breadth. Its height is 3 metres. The area of its four walls (including the doors) is 108 m<sup>2</sup>. Find its volume.

A. 215m<sup>3</sup>

B. 216m<sup>3</sup>

C. 217m<sup>3</sup>

D. 218m<sup>3</sup>

**Answer key:**

**B. 216m<sup>3</sup>**

**Theory:**

Let

*l* be the length

*b* be the breadth of the room.

$$L = 2B$$

$$H = 3 \text{ metres}$$

$$\text{Area of four walls} = 2(L \times H + B \times H)$$

$$= 108$$

$$\Rightarrow 6BH = 108$$

$$\Rightarrow B = 6$$

$$\therefore L = 12, B = 6, H = 3$$

$$\text{Volume} = 12 \times 6 \times 3$$

$$= 216 \text{ m}^3$$

*Suggested Reading: Mensuration*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

**Assertion A: Cork flooring suitable for use in churches, theatres, public libraries**

**Reason R: It acts as an acoustic insulator**

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is not the correct explanation of A
3. A is true but R is false
4. A is false but R is true

A. Option - 1

B. Option - 2

C. Option - 3

D. Option - 4

Answer key:

A. Option - 1

Theory:

*Cork is also a natural thermal and acoustic insulator, which means rooms with cork flooring are naturally warm and quiet. Aesthetically versatile. Cork flooring is available in tiles and planks in many styles, colors and sizes..*

*Suggested Reading: Basics of building construction/Components*

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Which architectural element is most commonly associated with Mayan temples?



Source: Amazing Maya Ruins to See in Mexico (tipsatw.com)

A. pointed arches

C. Flat roofs

B. stepped pyramids

D. stained glass windows

Answer key:

Theory:

*Explanation: Mayan temples, like Chichen Itza, are characterized by their towering stepped pyramids, often topped with temples or shrines. Pointed arches, flat roofs, and stained glass are more common in other architectural styles.*

**B. Stepped Pyramids**

*Suggested Reading: History of Architecture*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

How does iteration contribute to the design thinking process?

- A. By sticking to the initial design solution without alterations
- B. By repeating the same steps multiple times
- C. By allowing for continuous refinement and improvement of ideas
- D. By ignoring user feedback during the design phase

Answer key:

**C. By allowing for continuous refinement and improvement of ideas**

Theory:

*Iteration in the design thinking process involves the repetitive refinement and improvement of ideas based on feedback and testing, allowing designers to evolve and enhance their solutions over time.*

*Suggested Reading: Design Thinking*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Read the passage and answer the question . The sentences are numbered to help you answer the questions. .

1) The Woodstock Music and Art Fair—better known to its participants and to history simply as “Woodstock”—should have been a colossal failure. 2) Just a month prior to its August 15, 1969 opening, the fair’s organizers were informed by the council of Walkill, New York, that permission to hold the festival was withdrawn. 3) Amazingly, not only was a new site found, but word spread to the public of the fair’s new location. 4) At the new site, fences that were supposed to facilitate ticket collection never materialized, and all attempts at gathering tickets were abandoned. 5) Crowd estimates of 30,000 kept rising; by the end of the three days, some estimated the crowd at 500,000. 6) Then, on opening night, it began to rain. 7) Off and on, throughout all three days, huge summer storms rolled over the gathering. 8) In spite of these problems, most people think of Woodstock not only as a fond memory but as the defining moment for an entire generation.

Which of the following numbered sentences of the passage best represents an opinion rather than a fact?

- A. Sentence 1
- B. Sentence 2
- C. Sentence 3
- D. Sentence 4

Answer key:

A. Sentence 1

Theory:

**Sentence 1 (choice a)** contains the phrase *should have been a colossal failure*, which is an opinion of the author. The other choices are sentences that provide factual information about Woodstock

*Suggested Reading: Comprehension*

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Why is the word amazingly used in sentence 3?

- A. The time in which the site move was made and the word sent out was so short.
- B. The fair drew such an unexpectedly enormous crowd.
- C. There was such pressure by New York officials against holding the fair.
- D. The stormy weather was so unfavorable.

Answer key:

**A. The time in which the site move was made and the word sent out was so short.**

Theory:

**Sentence 1 (choice a)** The sentence preceding and leading into sentence 3 speaks of the very brief time—a month—that the organizers of the fair had to find a new site and get information out. Choices b and d are incorrect because they could not have been known about at the time the fair was moved. Choice c is incorrect because there is no indication in the passage that New York officials tried to stop the fair.

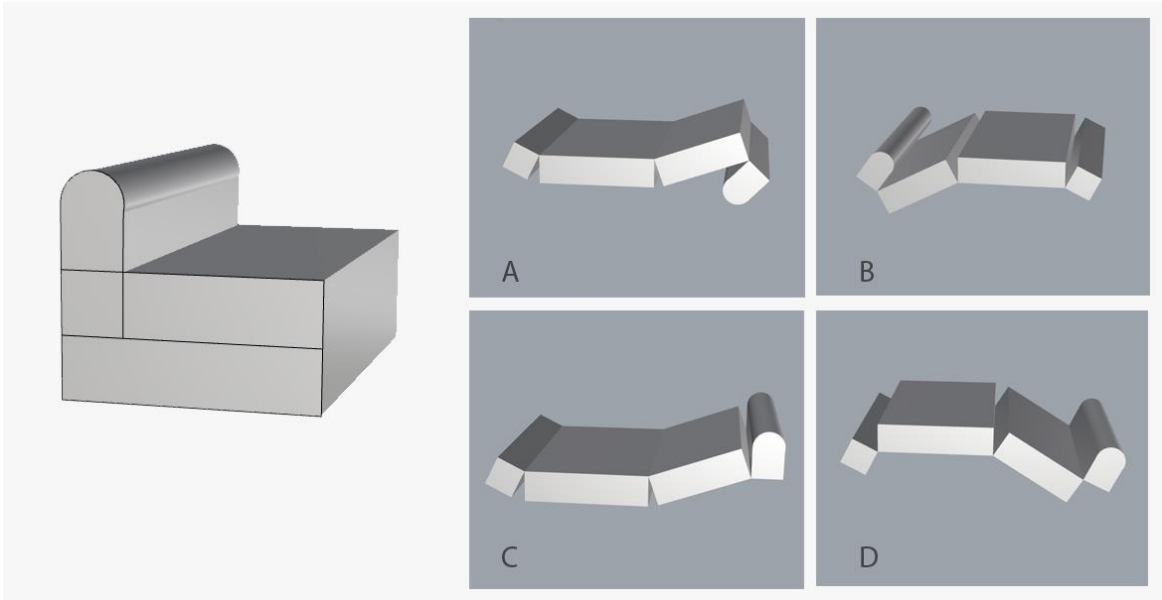
*Suggested Reading: Comprehension*

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Shown on the left is a futon that becomes a mattress when opened and folds into a seat. Which option CANNOT be folded as a seat?



A. A

C. C

B. B

D. D

Answer key:

Theory:

C. C

**Option C:**

The four parts shown in A, B and D can be folded into the futon shape except for the option C. In option C, the futon back rest section should be attached on the opposite edge for it to be folded into a futon. Hence, option C is the answer.

*Suggested Reading: Principles of design*

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