

VISUAL REASONING

LOGICAL DERIVATION

NUMERICAL ABILITY

GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN

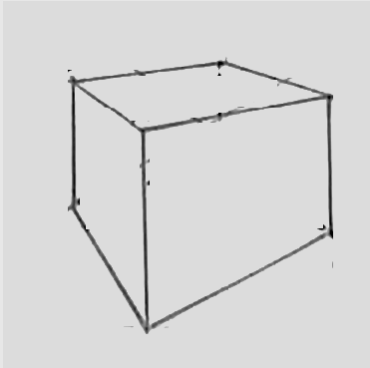
DESIGN THINKING

LANGUAGE INTERPRETATION

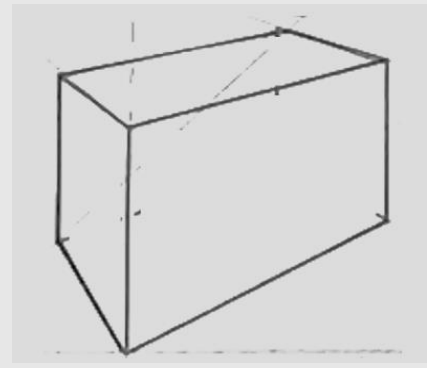
DESIGN SENSITIVITY

A black cat is running around a shoe box in a house. How will the box look like to the cat when it views the box standing exactly in front of the shorter side.

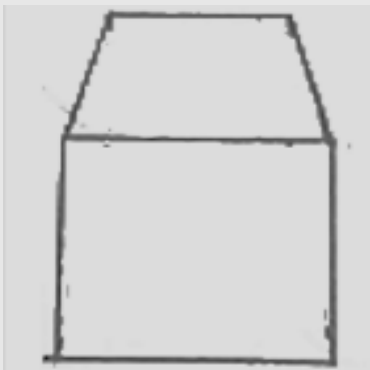
A.



C.

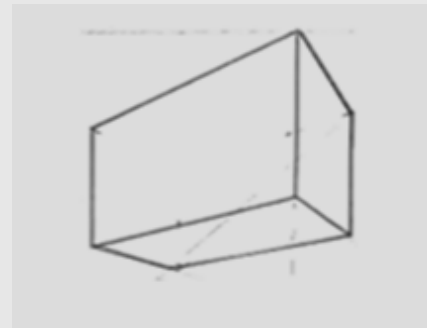


B.



Source: CAAD- DRL

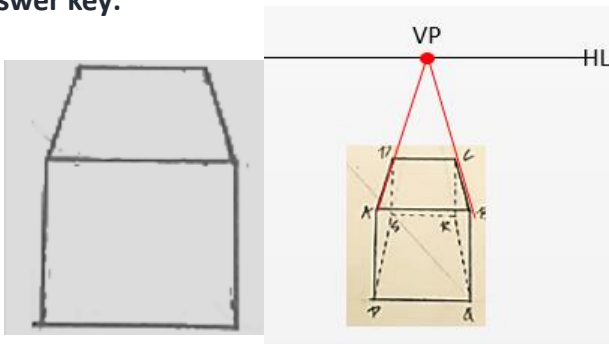
D.



Source: CAAD- DRL

Answer key:

B.



Theory:

ONE POINT PERSPECTIVE:

One-point perspective (frontal or central perspective) has only one vanishing point on the horizon line located somewhere within the picture plane and all the orthogonal converge towards it.

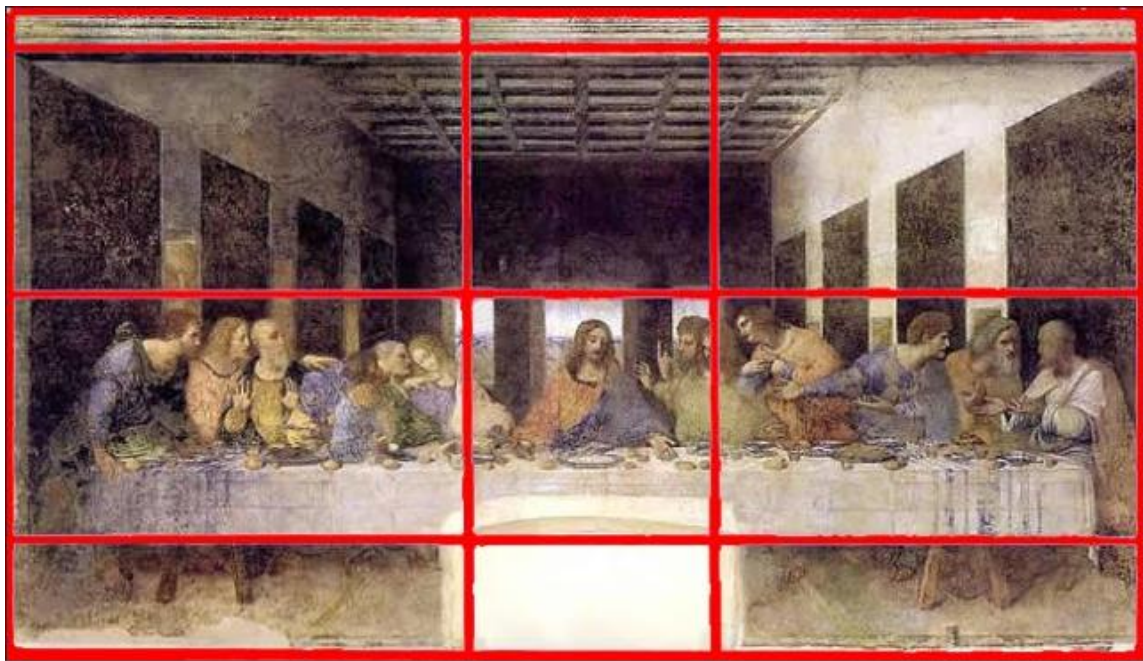
Suggested Reading: Basics of One point Perspective

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

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Identify the visual composition method used in the famous painting of Leonardo Da Vinci.



"Image: Mmc401.3 Typography Project: 2014".

A. Spiral Section

C. Rule of thirds

B. Golden Spiral

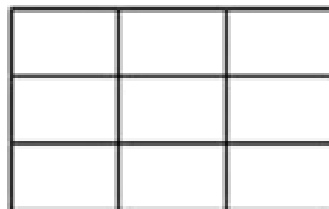
D. Harmonious triangles

Answer key:

Theory:

Golden Proportions

C. Rule of thirds



Rule of Thirds

Suggested Reading: visual composition

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The attached image shows a corridor floor that is covered with square tiles of the same size. How many tiles are covered by the green patch?



A. 33

B. 38

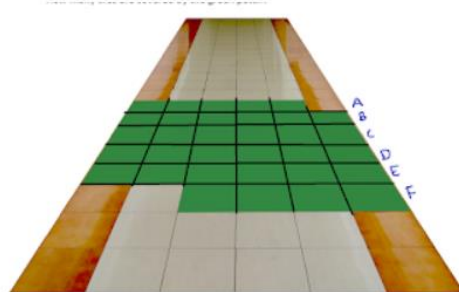
C.42

D. 56

Answer key:

A. 33

Theory:



No. of tiles in row A = 5
 No. of tiles in row F = 4
 No. of tiles in other rows = $6 \times 4 = 24$
 Total = 33

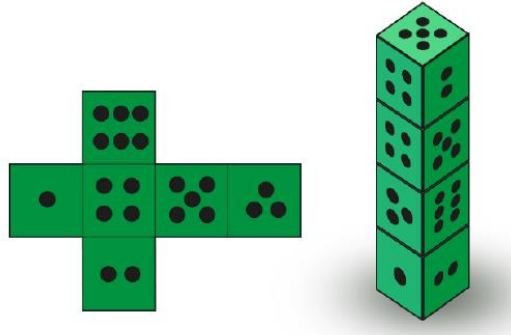
Suggested Reading: Mensuration

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Figure to the left shows an unfolded pattern of a die. If four such identical dice are stacked one on top of another, as shown on the right, what is the sum of the numbers appearing on the faces which are parallel to the ground?



A. 6

B. 18

C.27

D. 16

Answer key:

C. 27

Theory:

In the given dice shown to the left, the opposite pairs of numbers are (1,5), (2,6) and (3,4)

In the first bottom row of the set of dice shown to the right in the question, 1 and 2 (dots) are visible. So, their corresponding opposite faces shall be 5 and 6 as per the pairs rule that I've mentioned above. The leftover pair is (3,4)

For the dice on the second row (second from the bottom), numbers/dots 3 and 6 are visible. So, their opposite faces shall be 4 and 2. The leftover pair is (1,5)

For the third from bottom dice, the visible dots are 4 and 5. Their corresponding pairs are 3 and 1. So, the leftover pair shall be (2,6)

In the top most row, 5 is visible at the top. So, its corresponding pair is 1 (1,5).

Therefore, numbers pairs parallel to the ground is are (3,4), (1,5), (2,6), (1,5).

Their sum is $3+4+1+5+2+6+1+5 = 27$

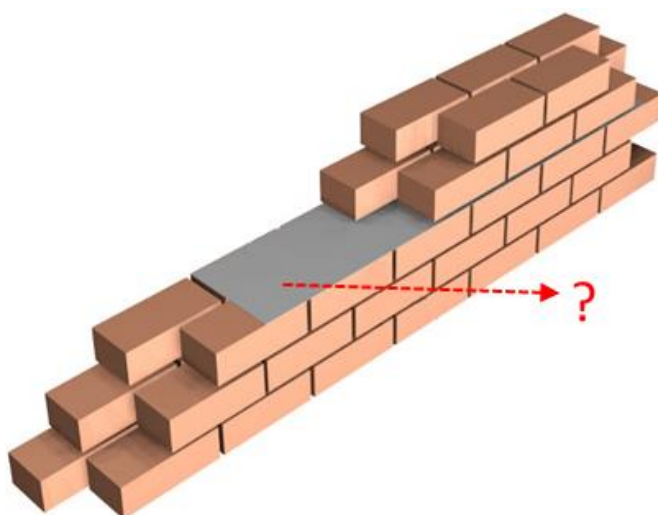
Suggested Reading: Problems related to cube geometry

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_____ Treatment is given to the foundations, walls and roofs of building to prevent moisture penetration through these surfaces.



A. Fire proofing

B. Damp proofing

C. Termite proofing

D. Sound proofing

Answer key:

B. Damp proofing

Theory:

Damp proofing is a general term that covers methods and treatments used to prevent dampness from being absorbed through floors, walls or roofs into the interior of a building.

Materials widely used for damp proofing include: Flexible materials like butyl rubber, hot bitumen (asphalt), plastic sheets, bituminous felts, sheets of lead, copper, etc. Semi-rigid materials like mastic asphalt.

Suggested Reading: Basics of building construction/Components

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Renowned for its intricate stonework and iconic arches, this Roman landmark once accommodated gladiatorial combats and public spectacles.



Source: International Christian School of Vienna (icsv.at)

A. Sagrada Familia

C. Spanish Steps

B. Colosseum

D. Pantheon

Answer key:

Theory:

Explanation: While all structures are Roman marvels, the description of gladiatorial combat and public spectacles specifically points to the Colosseum, known for its elliptical shape and tiered seating.

B) Colosseum

Suggested Reading: History Of Architecture

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What is empathy in the context of design thinking?

- A. The ability to draw accurate architectural sketches.
- B. understanding the emotions, needs, and viewpoints of users.
- C. The process of calculating structural loads in construction.
- D. Prioritizing aesthetics over functionality in design.

Answer key:

B. understanding the emotions, needs, and viewpoints of users.

Theory:

Empathy in design thinking refers to the ability to understand and share the feelings, needs, and perspectives of users. It involves putting oneself in the shoes of others to better understand their experiences and challenges..

Suggested Reading: Design Thinking

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Read the passage below and determine the correct answer.

Passage: Employees working within organisations have a legislative obligation to monitor the content of e-mails sent to external bodies and to eliminate potentially sensitive internal information regardless of the perceived importance of that information. To guarantee that employees fulfil their legislative obligation and to prevent the possible leak of exclusive information, employers have prepared mandatory contracts stipulating this responsibility to be signed by all employees and additionally, inserted a copyright section to every external e-mail that emphasises the confidentiality of the information provided. Employee's carelessness in handling information circulated via email may result in serious punitive actions.

Supervisors should monitor employees' e-mail accounts to minimise the leak of exclusive information.

A. True	C. Cannot say
B. False	
Answer key: C. Cannot Say	Theory: According to the text, "employees ... have (an) ... obligation to monitor the content of e-mails...". The text never says that this is part of the employers' role.

Suggested Reading: True/False/Cannot Say
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Choose the correct alternative from the following options as given below for the Assertion (A) and Reason (R) given in each of the questions.

Assertion (A)

Indus Valley people knew the art of navigation.

Reason (R)

Indus Valley seals indicate prevalence of overseas trade.

A. if both A and R are true and R is the correct explanation of A

C. if A is true but R is false

B. if both A and R are true and R is not the correct explanation of A

D. if A is false but R is true

Answer key:

Theory:

Correct option is A. Both A and R are true and R is the correct explanation of A.

A. if both A and R are true and R is the correct explanation of A

Suggested Reading: Assertion and Reason Type Questions

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Based on the paintings below which of the following statements is/are true?



- A. These paintings use geometric grids for their construction.
- B. All three paintings use geometric shapes like circles and triangles.
- C. All these paintings draw upon tribal folklore.
- D. These paintings were originally drawn on walls.

A. A, B, D

C. A, D

B. B, C

D. B, C, D

Answer key:

D. B, C, D

Theory:

B, C and D :

Symmetry is the reflection of shared forms, shapes, or angles across a central line or point called the axis.

The image shown is formed by reflection at the centre vertically .

Suggested Reading: Principles of design

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