

VISUAL REASONING

LOGICAL DERIVATION

NUMERICAL ABILITY

GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN

DESIGN THINKING

LANGUAGE INTERPRETATION

DESIGN SENSITIVITY

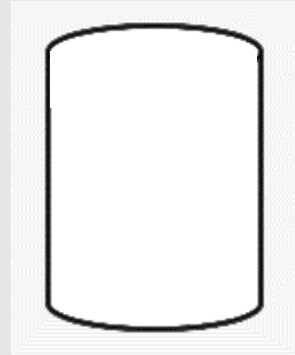
Find the object which is above the horizon line.

Source: CAAD- DRL

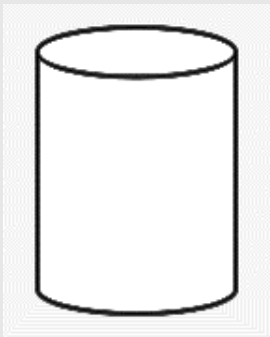
A.



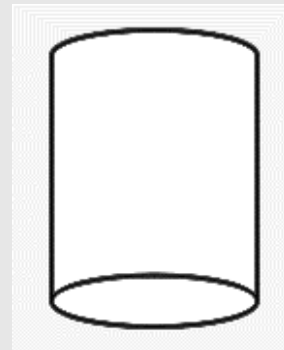
C.



B.

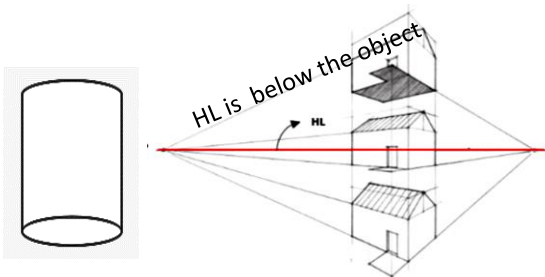


D.



Answer key:

D.



Theory:

Two point perspective:

Two point perspective (angular perspective) has two vanishing points on the horizon line, which don't necessarily need to be within the picture plane. If the object is above the horizon line, the viewer can see the base of the object

Suggested Reading: Basics of Perspective

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

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Identify the principles of design visually seen in this famous Hawa Mahal, Jaipur.



1. Repetition	3. Hierarchy	5. Datum	7. Symmetry
2. Transformation	4. Rhythm	6. Emphasis	8. Axis
A. Options 1,2,4,7,8		C. Options – 1,2,5,6,8	
B. Options 1,3,4,7,8		D. Options – 1,2,4,5,6	

Answer key:

B. Options 1,3,4,7,8

Theory:

Principle of Design are

- Axis
- Symmetry
- Asymmetry
- Hierarchy
- Rhythm
- Datum
- Transformation
- Repetition

Suggested Reading: Principles of design

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A and B together can complete a piece of work in 15 days and B alone in 20 days. In how many days can A alone complete the work?

A. 60 Days

B. 30 Days

C. 120 Days

D. 50 Days

Answer key:

A, 60 Days

Theory:

$(A + B)\text{'s } 1 \text{ day's work} = 1/15$

$B\text{'s } 1 \text{ day's work} = 1/20$

$A\text{'s } 1 \text{ day's work} = 1/15 - 1/20 = 1/60$

Hence, A alone can complete the work in 60 days

Suggested Reading: Proportion

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A can do a work in 4 days, B in 5 days and C in 10 days. Find the time taken by A, B and C to do the work together?

A. $2\frac{9}{11}$ Days

B. $3\frac{9}{11}$ Days

C. $1\frac{9}{11}$ Days

C. $4\frac{9}{11}$ Days

Answer key:

C. $1\frac{9}{11}$ Days

Theory:

A's 1 day's work = $\frac{1}{4}$

B's 1 day's work = $\frac{1}{5}$

C's 1 day's work = $\frac{1}{10}$

(A + B + C) 's 1 day's work = $\frac{1}{4} + \frac{1}{5} + \frac{1}{10}$
= $\frac{11}{20}$

Hence, A, B and C together can do the work in
 $\frac{20}{11} = 1\frac{9}{11}$ days.

Suggested Reading: Proportion

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The openings in the exterior surface of the building such as windows, doors and skylights are referred as _____.



A. Fenestration

B. Beam

C. Ramp

D. String

Answer key:

Theory:

A. Fenestration

Fenestration systems refer to all openings in the building envelope, including curtain walls, windows, doors and skylights. Fenestration is normally viewed as an aesthetic feature, but it also affects building performance. Fenestration is an important element of design that can create symmetry, direct the eye, or connect the interior and exterior aesthetics through the sizes, shapes, and arrangements of openings.

Suggested Reading: Basics of building construction/Components

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Triangular wedge slicing through NYC, Art Deco pioneer:



Source: Flatiron Building - Manhattan, NYC | Best of Pinterest (bestofpinterestt.blogspot.com)

A. Flatiron Building

C. Empire State Building

B. Seagram Building

D. Chrysler Building

Answer key:

Theory:

Explanation: The triangular wedge shape and Art Deco reference point directly to the Flatiron Building, a pioneer in early skyscraper design and a distinctive landmark in New York City.

A) Flatiron Building

Suggested Reading: History of Architecture

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What are the steps of Design Thinking Process?

A. Understand > Draw > Ideate > Create > Test

B. Empathise > Define > Ideate > Prototype > Test

C. Empathise > Design > Implement > Produce > Test

D. Understand > Define > Ideate > Produce > Try

Answer key:

B. Empathise > Define > Ideate > Prototype > Test

Theory:

The Design Thinking process involves empathizing with users to understand their needs (Empathise), defining the problem based on these insights (Define), generating ideas to solve the problem (Ideate), creating prototypes to visualize solutions (Prototype), and testing these prototypes with users for feedback (Test). This iterative approach allows designers to develop innovative and user-centered solutions efficiently.

Suggested Reading: Design Thinking

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Select the appropriate word in each sentence below. The answer is the sequence of options in all the four sentences

1. (A) Apart from looking **through** [A] / **at** [B] the system and the curriculum, the authorities must review the teaching methods **and** [A] / **but** [B] help the teachers to adapt themselves to the changing environment.
2. (B) More than the curriculum, it is the rigid systems of examination and ranking that has made school education **so** [A] / **as** [B] stressful.
3. (C) This is of course not the first time that the presumed virtues of complex financial products have been questioned in the developed worlds nor [A] / **or** [B], for that matter, in India.
4. (D) Dupont's lark needs flat scrubland **but** [A] / **though** [B] in Spain much of this has been used for construction of buildings.

A. BAABA

C. AAABA

B. AABAA

D. BAAAB

Answer key:

Theory:

C. AAABA

Option C:

In this context looking at is correct. 'Apart from' should be followed by 'and' not 'but.' 'As stressful' must show some kind of comparison. Here there is no comparison, hence, 'so stressful' is acceptable 'Neither . . . nor . . .' are co-ordinating conjunctions therefore one cannot be used without the other. Hence 'or' is suitable. In sentence D a contrast is shown, hence 'but' is more suitable.

Suggested Reading: Appropriate words in sentence formation, Grammar.

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A part of the sentence below contains a mistake. Choose the option which has the incorrect part of the sentence.

- (a) They are looking forward
- (b) to meet
- (c) their parents.
- (d) No error

A. a

C. c

B. b

D. d

Answer key:

Theory:

The correct option is B. b

Here, 'to' is a preposition which should be followed by a noun or a gerund.

Hence, 'looking forward to' should be followed by 'V1+ing.'

The correct sentence is "They are looking forward to meeting their parents."

B. b

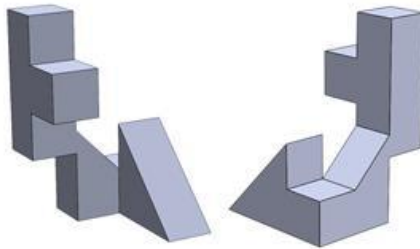
Suggested Reading: Appropriate word usage –Spotting errors

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Shown below are 2 views of the same solid. Through which of the cutouts shown in the options, will the solid pass?



A



B



C



D

A. A, B, D

C. A, C, D

B. B, C, D

D. A, B, C

Answer key:

C. A, C and D

C. A, C and D.

The option C is correct as the objects A, C and D can allow the object to pass through except B.

Suggested Reading: 2D and 3D rotation

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