

VISUAL REASONING

LOGICAL DERIVATION

NUMERICAL ABILITY

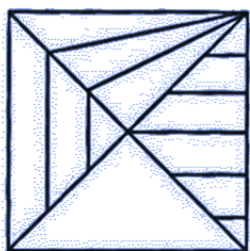
GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN

DESIGN THINKING

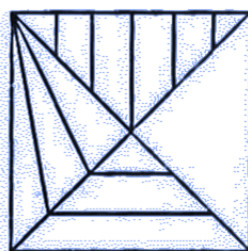
LANGUAGE INTERPRETATION

DESIGN SENSITIVITY

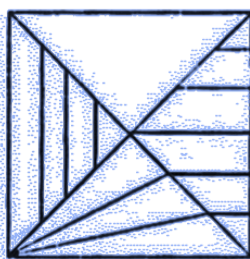
Find the odd figure out in the figures given below.



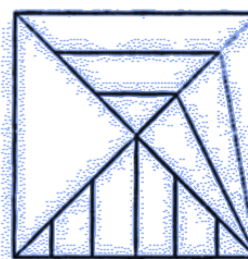
A



B



C



D

A. Option A

B. Option B

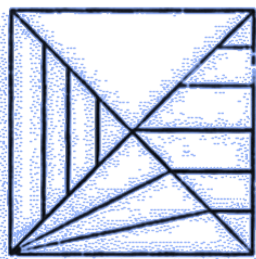
C. Option C

D. Option D

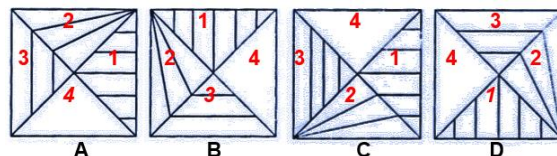
Answer key:

Theory:

The patterns named 1,2,3 and 4 are arranged in anti clockwise direction in the options A, B and D whereas in Option C it is arranged in clockwise direction. Also Option C has the same patterns as others in 1, 2 and 4 but the pattern in 3 is different from the others. So Option C is the odd one out of the others.



C.



Suggested Reading: Basics of Orthographic projections

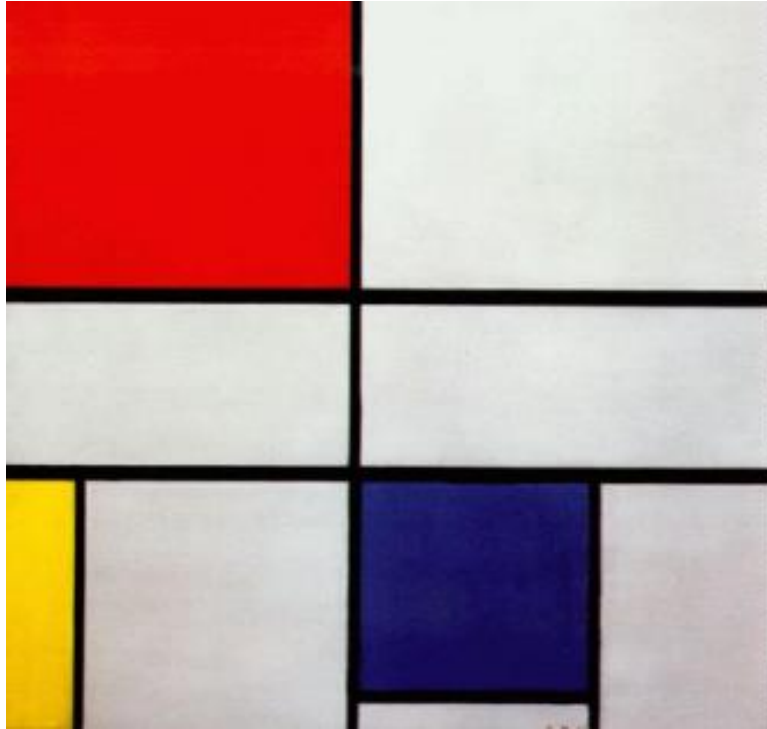
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Which elements of design are used in this famous composition of Piet Mondrian ?



A. Lines

B. Colours

C. Shape

D. All of the above

Answer Key:

D. All of the above. Lines, Colours and Shape.

Theory:

Elements in Architecture are

- Point
- Lines
- Shape
- Space
- Colour Form
- Texture

Suggested Reading: Principles of design

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The speed of a boat when travelling downstream is 32 kmph, whereas when travelling upstream it is 28 kmph, what is the speed of the boat in still water and the speed of the stream?

A. 28 km/hr and 2 km/hr

B. 30 km/hr and 2 km/hr

C. 32 km/hr and 2 km/hr

D. 15 km/hr and 2 km/hr

Answer key:

B. 30 km/hr and 2 km/hr

Theory:

$$\begin{aligned} \text{Speed of boat in still water} &= \frac{(32+28)}{2} \text{ km/hr} \\ &= 30 \text{ km/hr.} \end{aligned}$$

$$\begin{aligned} \text{Speed of stream} &= \frac{(32-28)}{2} \text{ km/hr} \\ &= 2 \text{ km/hr} \end{aligned}$$

Suggested Reading: Speed

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If 36 men can do a piece of work in 25 hrs, in how many hours will 15 men do it?

A. 50

B. 70

C. 60

D. 90

Answer key:

C. 60

Theory:

Let the required number of hours be x.

Then, Less men, More hours

$$\therefore 15 : 36 :: 25 : x$$

$$\Rightarrow (15 \times x) = (36 \times 25)$$

$$\Leftrightarrow x = 60.$$

Hence, 15 men can do it in 60 hours.

Suggested Reading: Ratio and Proportion

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Identify the Art movement behind the painting.



Source: <https://www.theartstory.org/definition/analytic-cubism/>

A. Expressionism	B. Pop art
C. Impressionism	D. Cubism
<p>Answer key:</p> <p>D. Cubism</p>	<p>Theory:</p> <p>Cubism is an early-20th-century avant-garde art movement that revolutionized European painting and sculpture, and inspired related movements in music, literature and architecture. In Cubist artwork, objects are analyzed, broken up and reassembled in an abstracted form—instead of depicting objects from a single viewpoint, the artist depicts the subject from a multitude of viewpoints to represent the subject in a greater context.</p>

Suggested Reading: Art Movement

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_____ is an exterior structure built against a wall or building to give support and strength.



Source: hampshirebuildingconservation.co.uk

A. Arches

B. Buttress

C. Window

D. Door

B. Buttress

A buttress is an architectural structure built against or projecting from a wall which serves to support or reinforce the wall. Buttresses are fairly common on more ancient buildings, as a means of providing support to act against the lateral forces arising out of the roof structures that lack adequate bracing.

Suggested Reading: Basics of building construction/Components

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The ultimate goal of design thinking is to help you design better?

A. Services

B. Products

C. Experiences

D. All of the above

Answer key:

D. All of the above

Theory:

Design Thinking is a human-centered approach to problem-solving that emphasizes empathy, creativity, and collaboration to develop innovative solutions. While Design Thinking utilizes various tools and techniques to facilitate the problem-solving process, such as co-creation, prototyping, and mind mapping, online marketing is not one of the standard tools associated with Design Thinking..

Suggested Reading: Design Thinking

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Find the synonym of the underlined word.

After several small brushfires at the campground, officials felt the need to augment the rules pertaining to campfires.

A. Criticise	C. Consider
B. Retract	D. Expand
Answer key: D. Expand	Theory: D. Expand: d. To augment something is to add to or expand it. Although choice c, consider, is not out of the question, since officials are responding to several fires that have already occurred, it is more likely that they will do something more pronounced and definitive than just considering the existing rules.

Suggested Reading: Meanings and Synonyms
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Select the lettered pair that has the same relationship as the original pair of words.

Metropolitan : Urban

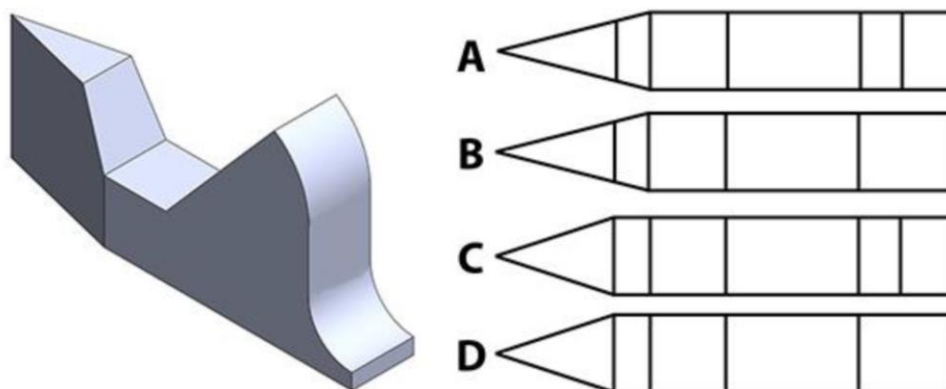
A. Bucolic : Rural	C. Agricultural : Cow
B. Sleepy : Nocturnal	D. Size : Area
Answer key: A. Bucolic: Rural	Theory: Option A. Bucolic : Rural Metropolitan describes urban areas; bucolic describes rural areas.

Suggested Reading: Analogy, Word Relationships.
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Which is the correct top view for the solid shown?



A. A

C. C

B. B

D. D

Answer key:

A. A

Theory:

A. A

The top view of the object matches profile A. if you see carefully, the curved surface seen from above will form a line at the bend as it is not in alignment with the object edge.

Suggested Reading: 2D and 3D rotation

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