

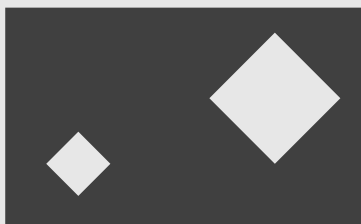
VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
	GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN	
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

A dancer has a beach house on the coast of Arabian sea. For her regular dancing practice, she has a dancing pavilion on the terrace. The roof of the pavilion has two diagonally placed square puncture, one big and one small. What will be the shadow cast on the pavilion during evening?

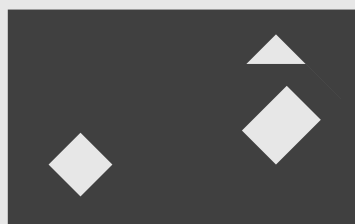


Source: CAAD - DRL

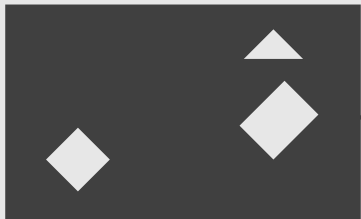
A.



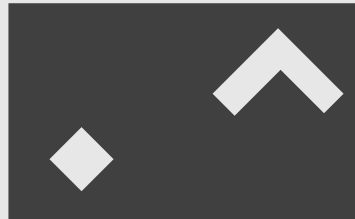
C.



B.

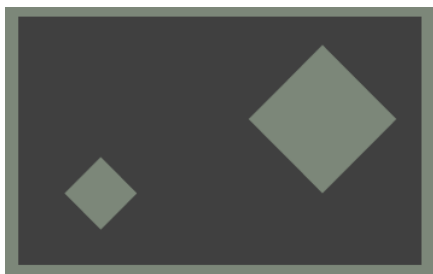


D.



Answer key:

A.



Theory:

Shadows are the relatively dark figures cast upon a surface by an opaque body or part of a body intercepting the rays from a light source.

The shape of the shadow is dependent on

- The position of shade line & the observer, The direction of the light and The form of the surfaces on which the plane of the shadow falls
- When the object is not in contact with the ground, the shadow will be seen detached from the object

Suggested Reading: Basics of light and shadow

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Identify the method of visual composition demonstrated in the following images.



Source: quora.com



Source: flickr.com



Source: cambridgeplanet.wordpress.com



Source: originalbeauty.wordpress.com

A. Golden Triangle

B. Radial Composition

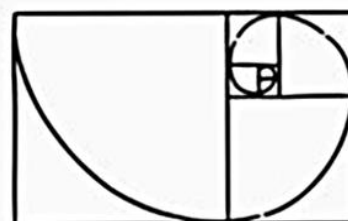
C. Golden Spiral

D. Rule of Thirds

Answer key:

Theory:

C. Golden Spiral



Golden Spiral

Suggested Reading: visual composition

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The present population of a village is 5500. If the number of males increases by 11% and the number of females increases by 20%, then the population will become 6330. What is the present population of females in the village?

A. 2300

B. 2200

C. 2500

D. 2400

Answer key:

C. 2500

Theory:

Let the number of males be x .

Then, number of females = $(5500 - x)$.

111% of x + 120% of $(5500 - x)$ = 6330

$\Rightarrow 111/100 x + 120/100 (5500 - x) = 6330$

$\Rightarrow 111x + 660000 - 120x = 633000$

$\Rightarrow 9x = 27000$

$\Rightarrow x = 3000$.

Hence, present population of females

$= 5500 - 3000$

$= 2500$

Suggested Reading: Percentage

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The ages of two persons differ by 16 years. If 6 years ago, the elder one be three times as old as the younger one, find their present ages.

A. 20, 4 years

B. 40, 24 years

C. 30, 14 years

D. 35, 19 years

Answer key:

C. 30, 14 years

Theory:

Let their ages be x years and $(x - 16)$ years.

Then, $(x - 6) = 3 \{(x - 16) - 6\}$

$$\Rightarrow x - 6 = 3(x - 22)$$

$$\Rightarrow 3x - x = 66 - 6$$

$$\Rightarrow 2x = 60$$

$$\Rightarrow x = 30.$$

So, their ages are 30 years and $(30 - 16) = 14$ years.

Suggested Reading: Basic Algebra

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A low protective wall along the edge of a terrace or balcony is called as _____.



Source: theconstructor.org

A. Parapet

B. Gable

C. Arcade

D. Jamb

Answer key:

A. Parapet

Theory:

Parapet, a dwarf wall or heavy railing around the edge of a roof, balcony, terrace, or stairway designed to prevent people from falling. Parapet walls can be constructed using different materials like reinforced cement concrete, steel, aluminium, glass etc.

Suggested Reading: Basics of building construction/Components

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Seattle needle piercing the sky, futuristic landmark with views:



Source: Space Needle - Wikipedia

A. Flatiron Building

C. Empire State Building

B. Seagram Building

D. Space Needle

Answer key:

Theory:

Explanation: The needle-like form, rotating observation deck, and Seattle association leave no doubt about the Space Needle, a futuristic landmark and prominent symbol of the Pacific Northwest city.

D) SPACE NEEDLE

Suggested Reading: History of Architecture

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What is your first model/design of a product called?

A. Draft

B. Rough Draft

C. Prototype

D. Practice Design

Answer key:

C. Prototype

Theory:

A prototype is the first model or design of a product created during the development process. It serves as a preliminary version used to test and evaluate the feasibility, functionality, and usability of the product concept.

Suggested Reading: Design Thinking

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Read the passage below and determine the correct answer for the statement in bold letters. The the passage should be your sole source of information for answering the question and avoid incorporating personal opinions into the response.

Passage: The field of artificial intelligence (AI) has witnessed significant advancements in recent years. AI technology is being increasingly integrated into various industries, ranging from healthcare and finance to transportation and entertainment. These intelligent systems are designed to analyze vast amounts of data, identify patterns, and make autonomous decisions.

AI technology poses a significant threat to human employment, leading to widespread job loss and unemployment.

A. True

C. Cannot say

B. False

Answer key:

Theory:

B. False

B. False

The passage emphasizes the integration and application of AI technology across different industries. While AI systems have the potential to automate certain tasks and processes, leading to changes in job roles and responsibilities, the passage does not mention that AI poses a significant threat to human employment resulting in widespread job loss and unemployment. The impact of AI on employment is a complex issue that involves various factors and considerations. Based on the information provided in the passage, we cannot conclude that the statement is true.

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)

In the Indian democratic system, the cabinet ministers are appointed by the President.

Reason (R)

The Prime Minister plays an advisory role.

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:

Option B:

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

Though both the statements are true, the reason for A is not R. R is an independent statement that is not connected to A.

*Suggested Reading: Assertion and Reason Type Questions, Cause and Effect
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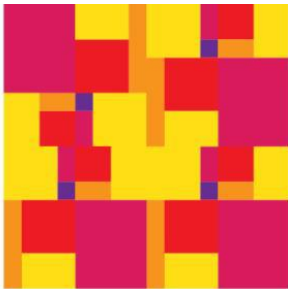
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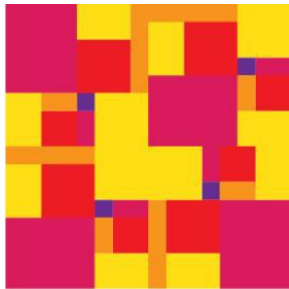
A contractor has a set of ceramic tiles of which one tile is shown on the left. Which of the options show(s) the pattern(s) created using this tile?



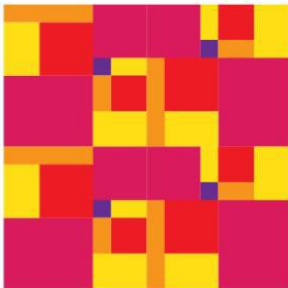
Ceramic Tile



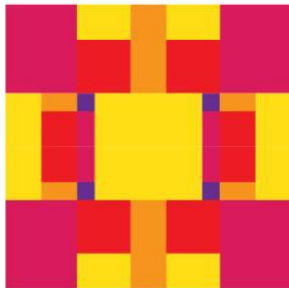
A



B



C



D

A. A, B

C. A, C

B. B, D

D. A, D

Answer key:

Theory:

A. A, B

A. A, B
The tile pattern o the left is rotated and fixed together to create the patterns A and B. The C and D patterns are not possible using the given ceramic tile as the pattern is different.

Suggested Reading: 2D and 3D rotation
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