

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

For St+art Goa 2018, anonymous Indian street artist DAKU created a temporary installation, a set up in the middle of a street in Panjim. The shadow installation is created by series of alphabets suspended using fishing nets over the street. Identify the image which shows the shadows cast at 12.00 noon. Source: "DAKU's Shadow Installation". 2020. St+Art (En). <https://st-artindia.org/project/dakus-shadow-installation>.

A.



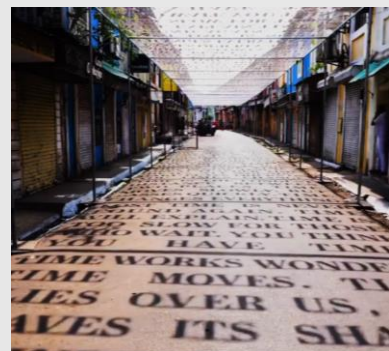
C.



B.



D.



Answer key:

D.



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

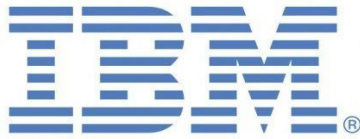
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Identify the theory of visual composition used in the following famous logos.

A.



C.



B.



D.



A. Common Fate

B. Continuity

C. Closure

D. Similarity

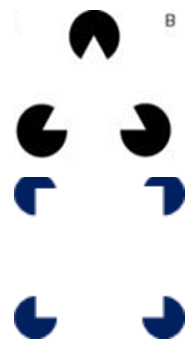
Answer key:

C. Closure

Theory:

Law of Closure (Gestalt principles)

In perception there is the tendency to complete unfinished or partially obscured objects. (If there is a large pattern with missing components, our mind tends to fill in the missing parts to perceive a complete image.)



Suggested Reading: visual composition

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The sum of two numbers is 184. If one third exceeds one seventh of the other by 8, find the smallest number.

A. 112

B. 62

C. 102

D. 72

Answer key:

D. 72

Theory:

Let the numbers be x and $(184 - x)$.

Then, $x/3 - (184 - x)/7 = 8$

$$\Rightarrow 7x - 3(184 - x) = 168$$

$$\Rightarrow 10x = 720$$

$$x = 72.$$

So, the numbers are 72 and 112.

Hence, smaller number = 72

Suggested Reading: Basic Algebra

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The ratio of the ages of Tina and Rakesh is 9:10 respectively. Ten years ago the ratio of their ages was 4:5 respectively. What is the present age of Rakesh?

A. 20

B. 18

C. 16

D. 22

Answer key:

A. 20

Theory:

Let Tina's age be $9x$ years.

Then, Rakesh's age = $10x$ years.

$$\therefore (9x-10)/(10x-10)=4/5$$

$$\Rightarrow 5(9x - 10) = 4(10x - 10)$$

$$\Rightarrow 45x - 40x = 50 - 40$$

$$\Rightarrow 5x = 10$$

$$\Rightarrow x = 2.$$

Rakesh's Age = $10 \times 2 = 20$ years

Suggested Reading: Basic Algebra

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Identify the material used for making decorative windows, so that the light let into the building would shine through the painting.

A. Timber

B. Ferrocement

C. Stained glass

D. Aluminium

Answer key:

Theory:

C. Stained glass

Stained glass windows is closely tied to its history, and has evolved over time. In the beginning, it was simply a way of letting daylight into buildings through small windows and keep the walls completely closed. Later it transformed into an art form. During the Gothic period and the Renaissance, stained glass has been applied almost exclusively to the windows of churches and other significant religious buildings.



Suggested Reading: Basics of building construction/Components

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This iconic Sydney landmark, resembling a large sail billowing in the wind, utilizes innovative tensile membrane structures and breathtaking views to create a unique cultural space.



Source: [Sydney Australia. \(21339175489\) - Sydney Opera House - Wikipedia](#)

A. Burj Khalifa

C. Guggenheim Museum

B. Opera House

D. Fallingwater

Answer key:

Theory:

Explanation: The distinctive sail-like design, membrane structures, and location on the Sydney Harbour point directly to the Sydney Opera House, a globally recognized symbol of modern architecture..

B) Opera House

Suggested Reading: History of Architecture

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How does design history and theory inform architectural practice?

A. By disregarding historical precedents and theoretical frameworks

B. By providing insights into architectural traditions, movements, and philosophies .

C. By limiting design possibilities .

D. By excluding interdisciplinary exchange and collaboration

Answer key:

B. By providing insights into architectural traditions, movements, and philosophies .

Theory:

Design history and theory provide architects with insights into past architectural traditions, movements, and theoretical frameworks, helping them understand the evolution of design ideas, principles, and practices and informing their design approach and decision-making process.

Suggested Reading: Design Thinking

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Read the passage below and determine the correct answer for the statement in bold letters.

Passage: Companies wishing to increase their growing pace occasionally use the method of franchising which provides a new owner with the permit to use their business identity and in return to purchase products exclusively from the company. However, most companies will aim to minimise the use of this method and often prefer the expansion of the companies' own branches. Companies who have previously used franchising learnt the essential need to monitor the business operation of the franchised branch. Difficulties arise from franchisees and companies disagreeing on business policies such as customer care, service delivery efficiency and quality of human interaction. Inadequate attention to the monitoring of franchisees on the part of the companies is typically the cause of subsequent problems.

Service delivery efficiency has reduced companies' will to franchise.

A. True

C. Cannot say

B. False

Answer key:

Theory:

C. Cannot say

C. Cannot say

The text explains that service delivery efficiency is a cause for disagreement between franchisees and companies, but it doesn't mention whether this is why companies are reluctant to franchise.

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)

We feel comfortable in hot and humid climate.

Reason (R)

Sweat evaporates faster in humid climate.

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. Both A and R are false.

Answer key:

Theory:

Option D:

D. Both A and R are false.

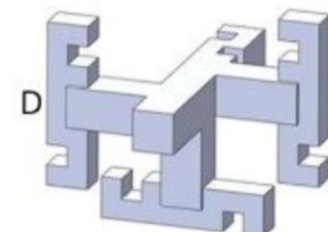
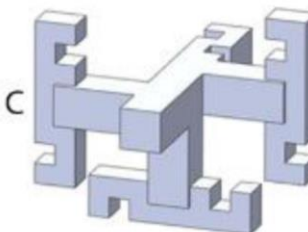
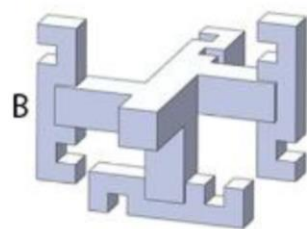
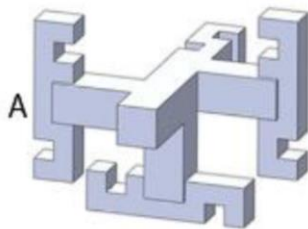
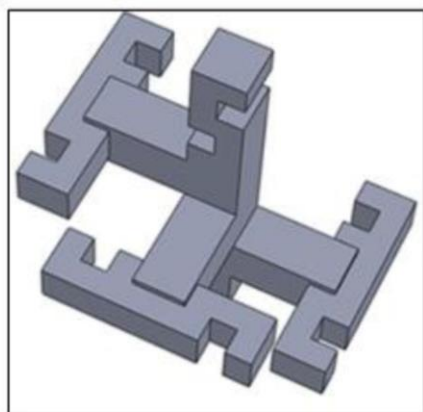
We feel uncomfortable in hot and humid climate because in hot weather, body sweats more but due to high humidity, this sweat does not evaporate easily.

*Suggested Reading: Assertion and Reason Type Questions, Cause and Effect
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The image in the box shows a 3 D object. From among the options below, select the one that shows the same object from a different view.



A. A

C. C

B. B

D. D

Answer key:

C. C

Theory:

Option C:

The options A, B and D are different from the object shown, while Option C shows the same object from another view.

Suggested Reading: Isometric Views

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