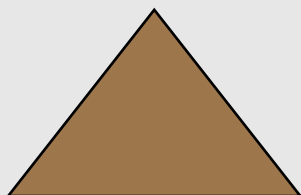


VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
	GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN	
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

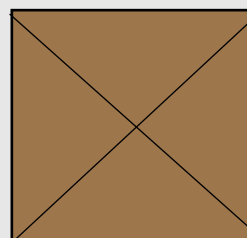
How will the Pyramid of Cheops look like in its top view?



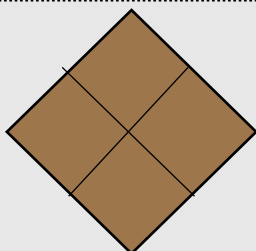
A.



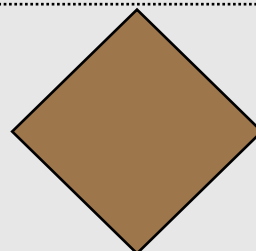
B.



C.



D.

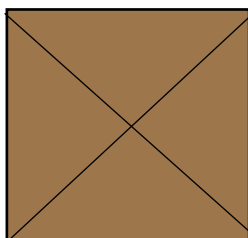


Answer key:

Theory:

Pyramid of Cheops is a Square Pyramid in shape. Option A is the front view or elevation of the Pyramid. Option B, C and D have a square base. Option D has not shown the pointed apex of the pyramid. Option C has the apex but the slope lines are not connecting the vertices of square base. Hence Option B is correct.

B.



**Suggested Reading: Orthographic Projections**

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What is the type of Balance in the image below?



A. Radial

C. Asymmetrical

B. Symmetrical

D. Rock

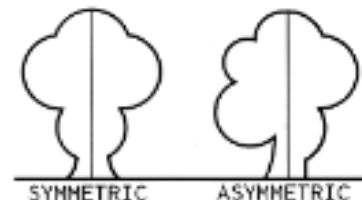
**Answer Key:**

**C. Asymmetrical**

**Theory:**

**Asymmetrical balance:**

Asymmetrical balance occurs when you have different visual images on either side of a design, and yet the image still seems balanced.



**Suggested Reading: Elements of Design**

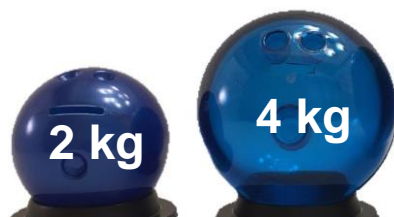
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Body A of mass 2 kg and another body B of mass 4 kg and of same material are kept in the same sunshine for some interval of time. If the rise in temperature is equal for both the bodies, then which one among the following in this regard is correct?



A. Heat absorbed by B is double because its mass is double

B. Heat absorbed by A is double because its mass is half

C. Heat absorbed by Both A and B is equal because the quantity of heat absorbed does not depend upon mass

D. Heat absorbed by B is four times than the heat absorbed by A because the quantity of heat absorbed is proportional to square of the mass

**Answer key:**

**A. Heat absorbed by B is double because its mass is double**

**Theory:**

Both the bodies are of the same material. So their heat capacity (S) will be the same.

Temperature rise ( $\Delta T$ ) for both the bodies is the same.

Given that;

- Mass of A ( $m_A$ ) = 2 kg
- Mass of B ( $m_B$ ) = 4 kg
- Temperature changes ( $\Delta T$ ) is same for both

Heat absorbed by A is

$$\Rightarrow Q_A = m_A S \Delta T = 2 \times S \times \Delta T = 2 S \Delta T$$

Heat absorbed by B is

$$\begin{aligned} \Rightarrow Q_B &= m_B S \Delta T = 4 \times S \times \Delta T = 4 S \Delta T \\ &= 2 \times \text{Heat absorbed by A (} Q_A \text{)} \end{aligned}$$

Hence Option A is correct.

*Suggested Reading: Body mass and temperature relation*

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Going 60 m to the south of his house. Kiran turn left and goes another 20 m, then turning to the North. He goes 40 m and then starting walking to his house. In which direction is his house from there?

A. North

B. North - West

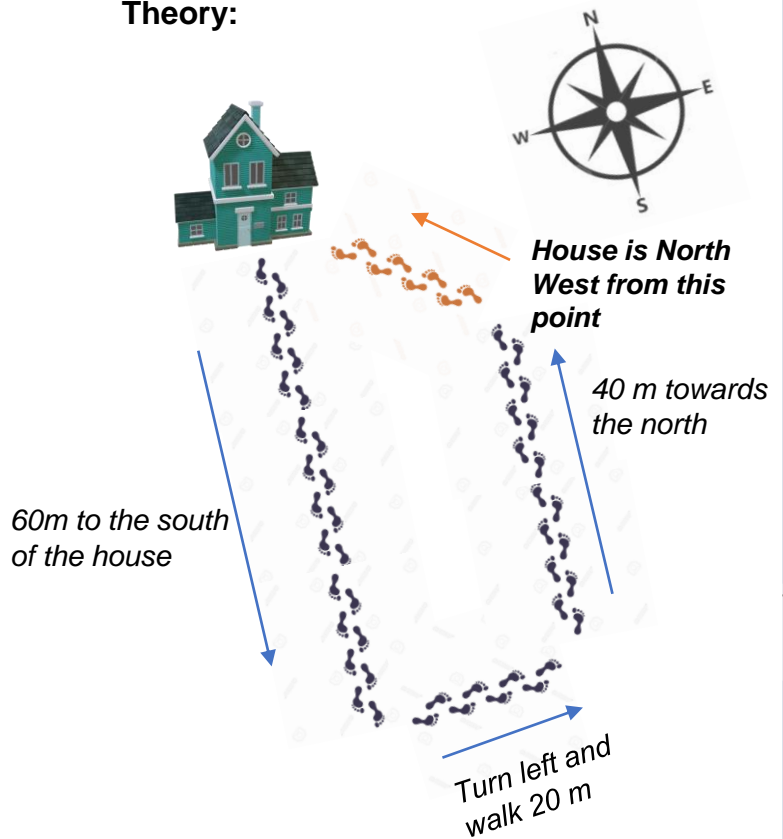
C. East

D. South west

Answer key:

B. North West

Theory:



Kiran is finally moving in the direction North-West to reach his house.

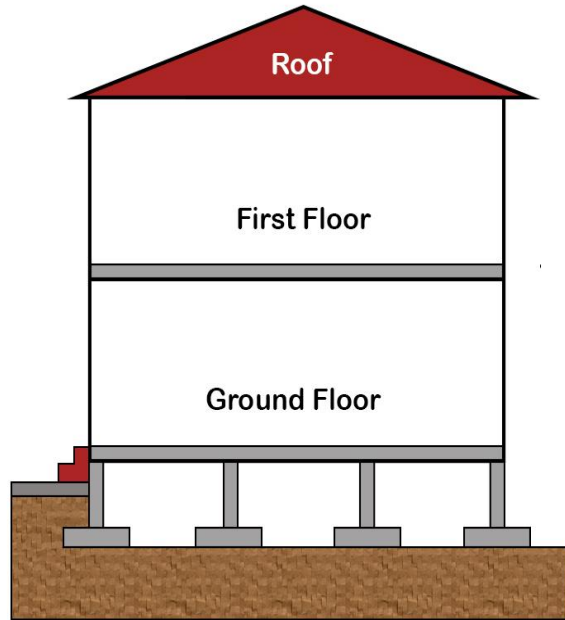
*Suggested Reading: Orientation and Directional study*

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The part of a building constructed below the ground level is known as \_\_\_\_\_.



Source: gharpedia.com

A. Plinth

B. Lintel

C. Foundation

D. Superstructure

Answer key:

Theory:

C. Foundation

Foundation is also known as substructure of the building. It is the critical part of the building constructed below the ground level and which transmits the entire load of the building to the subsoil. Foundations are classified as shallow and deep foundations.

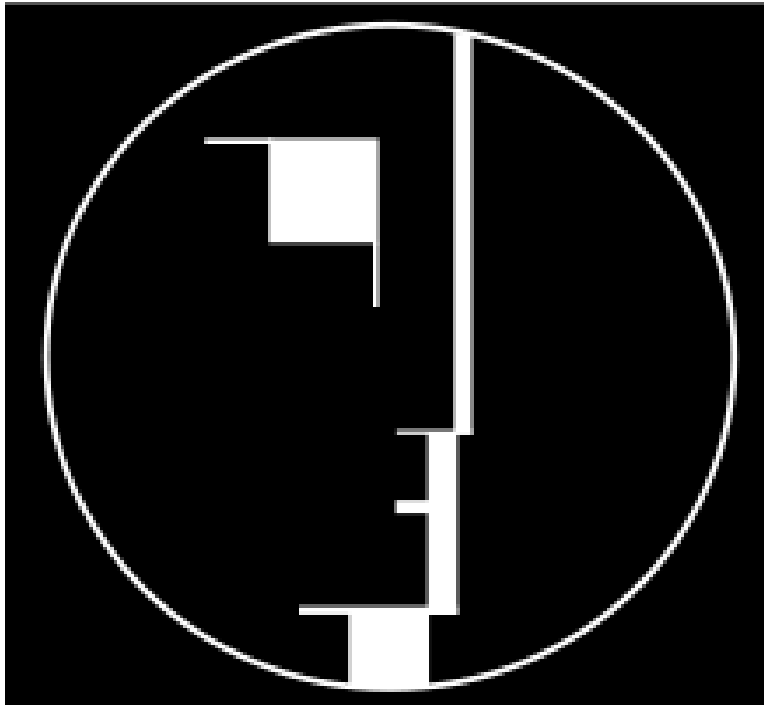
**Suggested Reading: Basics of building construction/Components**

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Identify the Art movement behind the logo?



<https://en.wikipedia.org/wiki/Bauhaus#/media/File:Bauhaus-Signet.svg>

A. Bauhaus

C. Cubism

B. Impressionism

D. Fauvism

Answer key:

Theory:

The Bauhaus was arguably the single most influential modernist art school of the 20th century. Its approach to teaching, and to the relationship between art, society, and technology, had a major impact both in Europe and in the United States. The stress on experiment and problem-solving which characterized the Bauhaus's approach to teaching has proved to be enormously influential on contemporary art education. It has led to the rethinking of the "fine arts" as the "visual arts", and to a reconceptualization of the artistic process as more akin to a research science than to a humanities subject such as literature or history.

A. Bauhaus

**Suggested Reading: Art Movement**

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What is Design thinking?

- A. A method used by architects to create blueprints.
- B. An approach to problem-solving that emphasizes empathy and user-centricity.
- C. The process of drawing sketches for buildings
- D. A technique for calculating structural integrity in construction

Answer key:

- B. An approach to problem-solving that emphasizes empathy and user-centricity.

Theory:

Design thinking is a problem-solving approach that emphasizes empathy for users, encourages creativity, and focuses on finding solutions that meet users' needs and preferences.

*Suggested Reading: Design Thinking*

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Find the synonym of the underlined word

The speaker demonstrated her knowledge of the subject by an excellent speech.

A. Created	C. Showed
B. Repeated	D. Proved
Answer key:  C. Showed	Theory:  'Demonstrate' means to clearly show the existence or truth of (something) by giving proof or evidence.  In this context, the speaker demonstrated her knowledge means that she showed her knowledge of the subject.  Hence, option D is correct and the others are not.

Suggested Reading: Synonyms  
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Complete the following sentence by using parts which are labelled PQRS

If suddenly you throw a brick at me \_\_\_\_\_

(P) and not a result of deliberate thought

(Q) and my hand goes up to protect myself

(R) instinctive action

(S) it is an automatic

A. PQRS

C. QSRP

B. RQSP

D. SPQR

C. QSRP

### Theory:

The first two parts are a sequence of events, where one is an action and the other is the response. The words 'if suddenly you throw...' will be followed by Q: 'and my hand goes up', because it states a reflexive reaction that will take place immediately after the action. Hence, Q comes first in the underlined sequence.

P does not follow the if-clause because it does not form a complete thought. Hence, the part that comes first is Q, and not P. Similarly, R and S do not follow the if-clause as it does not form a coherent meaning. The part that follows Q is S, as the word 'it' refers to the reaction 'my hand goes up to protect myself'. R follows S because the words 'instinctive action' further define 'it'. Part P follows R as the words 'and not a result' link to the other parts that explain the reflex reaction.

This sequence is seen in option C, hence it is the correct option.

Since the other options begin with P, R and S, and it's been established that Q comes first, options A, B and D are incorrect

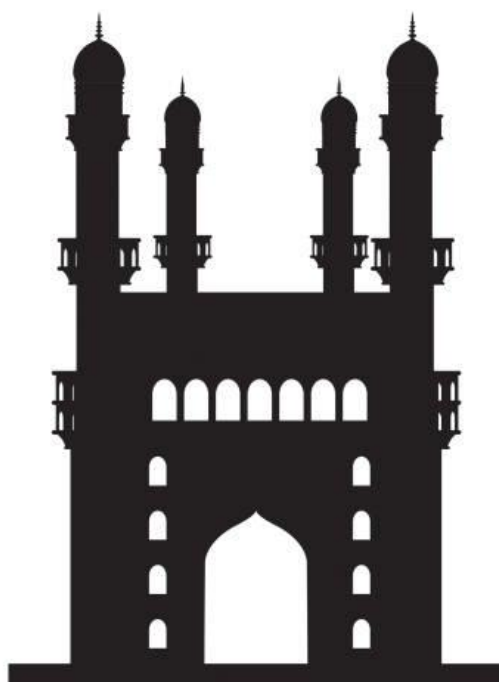
**Suggested Reading: Sequencing of words and phrases in a sentence**

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Which monument does this silhouette belong to?



A. India Gate

C. Gateway of India

B. Charminar

D. Jama Masjid

Answer key:

Theory:

**Charminar:** Charminar, (Urdu: “Four Minarets”) is a historic monument located at the heart of Hyderabad, west-central Telangana state, south-central India. It is known as Charminar because of its four towering and distinctive minarets, one on each of the building’s four corners.

B. Charminar

*Suggested Reading: Iconic buildings in India*

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