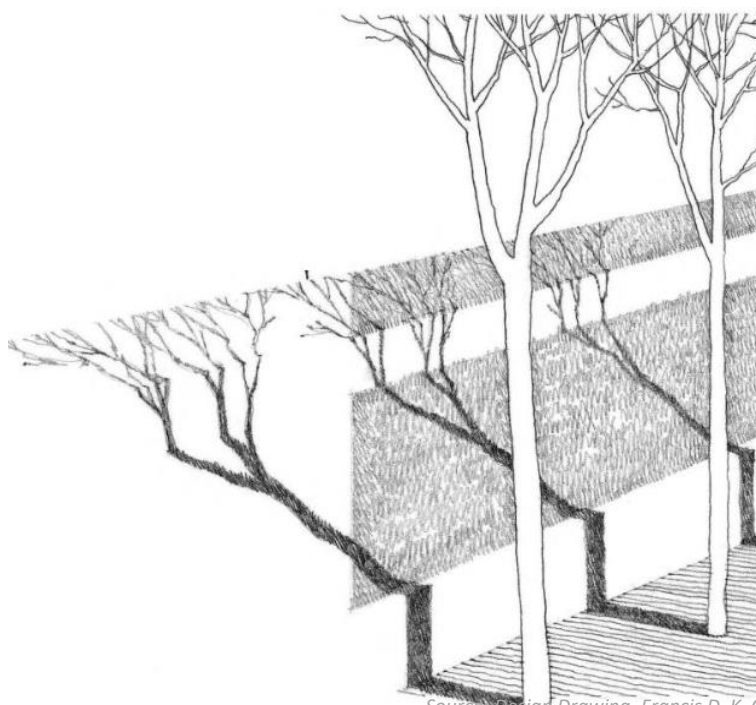


VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Identify the surface where the shadows are cast?



Source: Design Drawing, Francis D. K. Ching

A. Sloped surface

C. Stepped surface

B. Plain surface

D. None of the above.

Answer key:

Theory:

C. Stepped surface.

The shadow cast by the object will reveal the surfaces upon which they are cast. In the above image shadows cast are in the form of steps, which reveals that they fall on the stepped surface.

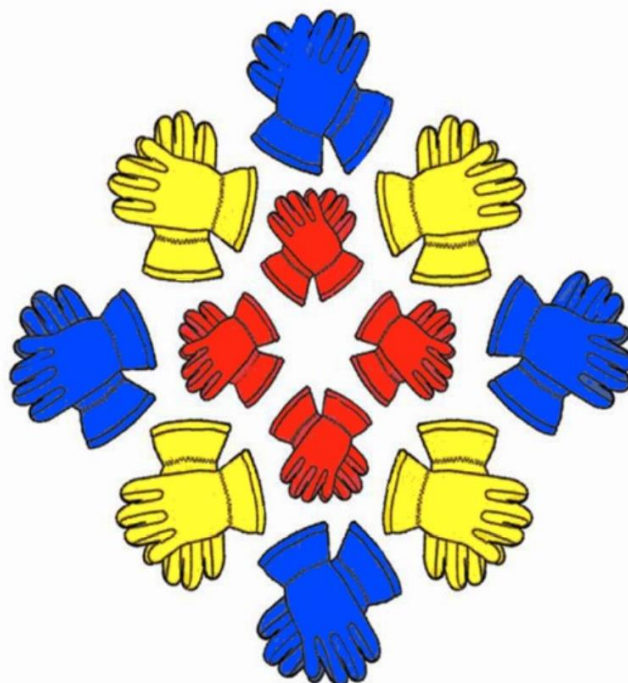
*Suggested Reading: Basics of light and shadow*

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Identify the colours that is used to create the composition give below



Source: CAAD-DRL

A. Primary

C. Tertiary

B. Secondary

Analogous

Answer key:

Theory:

**A. Primary Colour Scheme**

**Primary colours**  
These are the three pigment colours that cannot be mixed or formed by any combination of other colours. All other colours are derived from these three hues.



**Suggested Reading: Colour Theory**

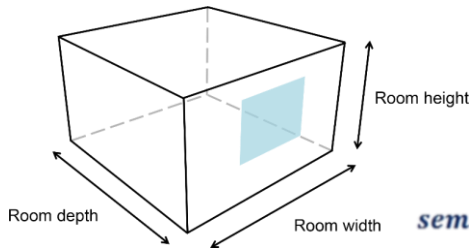
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The ratio of height of a room to its semi-perimeter is 2:5. It costs Rs.260 to paper the walls of the room with paper 50 cm wide at Rs.2 per metre allowing an area of 15 sq. m for doors and windows. The height of the room is:

$$\begin{matrix} \text{Ratio of Room Height} & : & \text{Semi-Perimeter} \\ 2 & & 5 \end{matrix}$$



$$\text{semiperimeter } s = \frac{(a + b + c)}{2}$$

A. 4.2M

B. 6M

C. 4M

D. 3.9M

Answer key:

C. 4M

Theory:

Let  $h = 2x$  metres and  $(l + b) = 5x$  metres.  
 Length of the paper = Total cost / Rate per m =  $260/2 \text{ m} = 130 \text{ m}$ .  
 Area of the paper =  $(130 \times 50/100) \text{ m}^2 = 65 \text{ m}^2$   
 Total area of 4 walls =  $(65 + 15) \text{ m}^2 = 80 \text{ m}^2$   
 $\therefore 2(l + b) \times h = 80 \Rightarrow 2 \times 5x \times 2x = 80$   
 $\Rightarrow x^2 = 4 \Rightarrow x = 2$ .  
 Height of the room = 4 m.

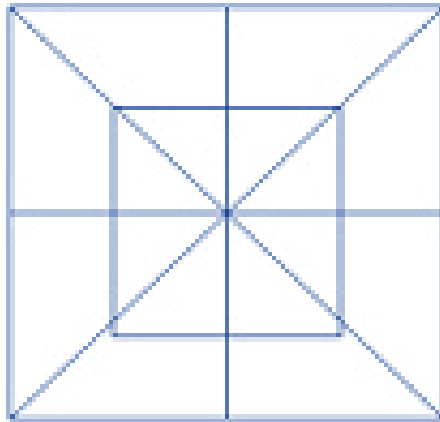
Suggested Reading: Mensuration

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Count the number of triangles and squares in the following figure



A. 28 Triangles and 10 Squares

B. 28 Triangles and 8 Squares

C. 32 Triangles and 10 Squares

D. 32 Triangles and 8 Squares

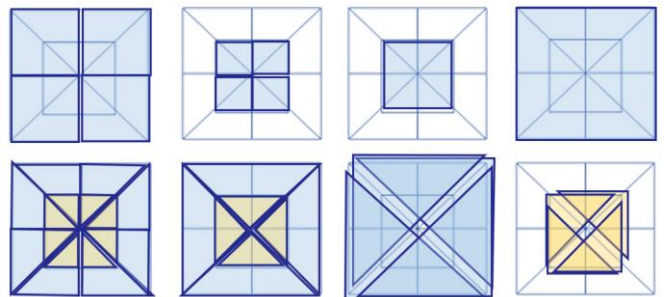
Answer key:

Theory:

$$\begin{aligned} \text{No. of Squares} &= 4 + 4 + 1 + 1 \\ &= 10 \end{aligned}$$

$$\begin{aligned} \text{No. of Triangles} &= 8 + 8 + 4 + 4 + 4 + 4 \\ &= 32 \end{aligned}$$

C. 32 Triangles and 10 Squares



*Suggested Reading: Shapes and mensuration*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

08. \_\_\_\_\_ is a type of metamorphic rock and is used widely for floorings in commercial buildings, kitchens, bathrooms etc. It has been used as flooring since ancient times.

A. Vitrified tiles

B. Marble

C. Rubber tiles

D. Linoleum tiles

Answer key:

**B. Marble**

Theory:

*The term marble refers to metamorphosed limestone. It has firm crystalline structure and slight porosity. Due to its structure, marble can be polished with great efficiency giving it a fine luster. Commonly used for sculpture and as a building material.*

*Suggested Reading: Basics of building materials*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

The Great Wall of China was originally built to:



Source: Great Wall of China - Ming Dynasty, UNESCO, Defense | Britannica

A. keep out invaders

C. control trade routes

B. impress foreign dignitaries

D. mark the border of the empire

Answer key:

Theory:

A) Keep Out Invaders

- Explanation: The Great Wall's winding path across mountainous terrain and fortified sections aimed to deter nomadic tribes and protect China's northern borders.
- Distractors: While trade routes and border marking played roles, the primary purpose was defense.

*Suggested Reading: History Of Architecture*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Which technique is commonly used to stimulate lateral thinking?

A. Mind mapping

B. Prioritizing aesthetics

C. Linear problem-solving

D. Following a predetermined plan

Answer key:

A. Mind mapping

Theory:

*Mind mapping is a technique used to visually represent ideas and concepts, facilitating brainstorming sessions and stimulating lateral thinking. It allows individuals to explore connections between different ideas and generate creative solutions to problems.*

**Suggested Reading: Design Thinking**

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	<b>LANGUAGE INTERPRETATION</b>	DESIGN SENSITIVITY

Read the passage and answer the question:

Health clubs have undergone a major transformation that can be described in three words: mind, body, and spirit. Loud, fast, heart thumping aerobics has been replaced by the hushed tones of yoga and the controlled movements of Pilates. The clubs are responding to the needs of their customers who are increasingly looking for a retreat from their hectic lifestyles and a way to find a healthy balance in their lives by nurturing their whole selves.

The main idea of the paragraph is that

- A. Exercise is less important now than it once was.
- B. Health clubs are much less popular now than they were ten years ago.
- C. many health clubs will go out of business because of the decline in traditional exercise.
- D. people's desire to nurture all aspects of themselves has contributed to big changes for health clubs.

Answer key:

**D. people's desire to nurture all aspects of themselves has contributed to big changes for health clubs.**

Theory:

*D: The passage states that health clubs have undergone a major transformation due to people's interest in taking care of their minds, bodies, and spirits. Choice a is incorrect because the paragraph doesn't say exercise is less important. It simply says the focus and type of exercise have changed. Choices b and c are not supported by the paragraph..*

*Suggested Reading: Comprehension*

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Read the passage and answer the question:

The city will be enforcing winter parking rules from December 1 through March 31, according to City Street Manager Joseph Parks. This includes alternate-side parking regulations, as well as tow-away zones and handicap exceptions. Cars are to be parked on the south and east sides of streets between the hours of 8 a.m. and midnight; and on the north and west sides of streets between midnight and 8 a.m. This is to permit snow plows and emergency vehicles access to all neighborhoods, as well as to keep rush-hour traffic to a minimum. Vehicles that do not follow these guidelines will be towed at the owner’s expense, Parks said, with the exception of those vehicles displaying handicapped parking permits.

Which of the following is NOT a reason for these parking regulations to be followed?

- A. They prevent excessive traffic.
- B. It’s good for the cars to be moved frequently in cold weather..
- C. It allows snow plows to get through.
- D. They enable emergency vehicles to gain access to all neighborhoods

Answer key:

**B. It’s good for the cars to be moved frequently in cold weather.**

Theory:

*B: All of the reasons are given in the passage except choice b. No mention is made of whether or not it’s good for the cars.*

*Suggested Reading: Comprehension*

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Choose the set of operations (not necessarily in order) that can be applied on Form A to get form B.



A. Cut Vertically, Taper, Cut at an angle, Bend, Twist

C. Cut vertically, Stretch, Twist, Bend, Cut at an angle.

B. Cut horizontally, Bend, Cut at an angle, Taper, Twist

D. Cut vertically, Twist, Stretch, Cut at an angle, Fold

Answer key:

Theory:

A. Cut Vertically, Taper, Cut at an angle, Bend, Twist

**Option A:**

As the height of Form B is same as Form A, the first operation is 'cut vertically', removing option B as a choice. Also for the same reason **Stretch** can be ruled out as an operation, leaving A as the only option that is correct.

Also the **taper** operation is missing in C and D reinforcing that Option A is the correct answer.

*Suggested Reading: Principles of design*

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