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

John, Jack , Jane and Jill plan to visit the art gallery in their city. Jill reached early and waiting inside the gallery for her friends. Her friends enter a museum through a large cubical space. Below is the image seen by Jill, when her friends entered.   What technique is used to draw the cube?
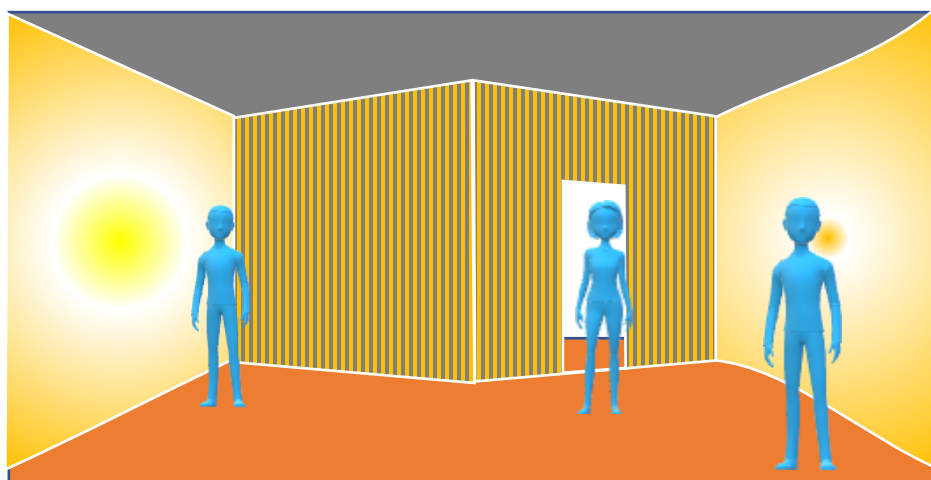
Source: CAAD - DRL
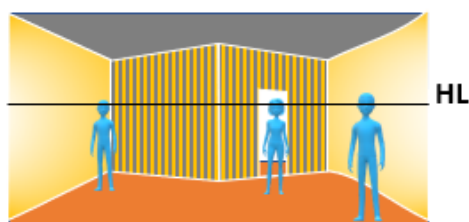
A. One Point perspective	C. Three Point perspective
B. Two point perspective	D. Aerial perspective

Answer key:

B. Two Point Perspective

Theory:

TWO POINT PERSPECTIVE:
Two point perspective (angular perspective) has two vanishing points on the horizon line, which don't necessarily need to be within the picture plane. If the eyelevel is below the horizon line, the viewer can see the base of the object/building
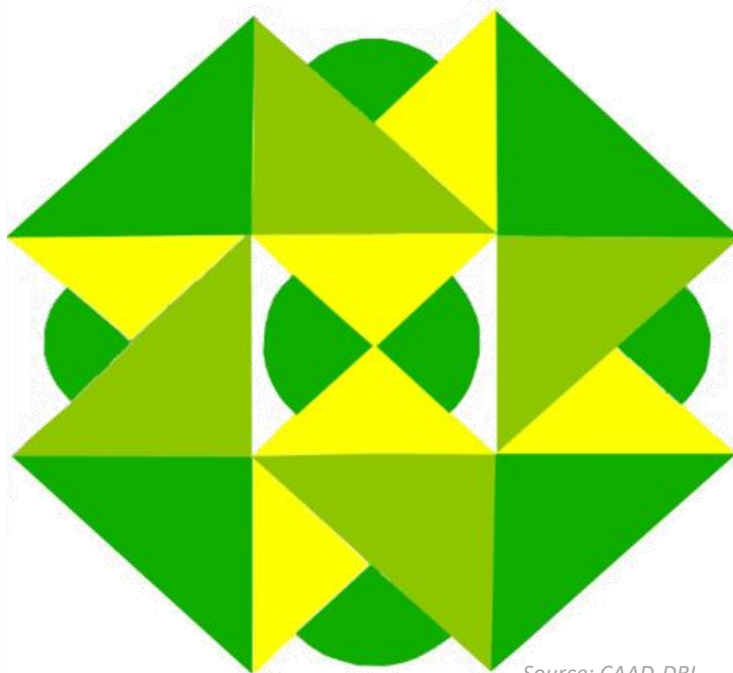
Suggested Reading: Basics of Two point Perspective
" For a swift review of the subject, kindly consult the study materials available on the website"

VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Which colour scheme is used to create the pattern given below?

Source: CAAD-DRL

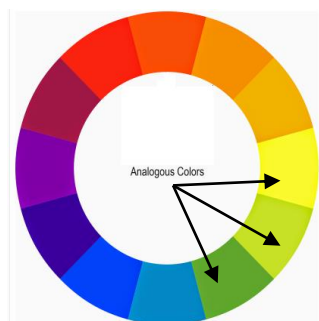| A. Analogous colour scheme	C. Primary Colour scheme
B. Complimentary colour scheme	D. Secondary Colour scheme

Answer key:

A. Analogous Colour Scheme

Theory:

Analogous colours
The colours that are located right next to each other on the colour wheel.

Suggested Reading: colour theory
" For a swift review of the subject, kindly consult the study materials available on the website"

VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
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In a 800 m race around a stadium having the circumference of 200 m, the top runner meets the last runner on the 5th minute of the race. If the top runner runs at twice the speed of the last runner, what is the time taken by the top runner to finish the race?

At 5th minute

Circumference 200 m

A. **20 Min**	B. **10 Min**
C. **15 Min**	D. **5 Min**

Answer key:

B. 10 Minutes

Theory:

After 5 minutes (before meeting), the top runner covers 2 rounds i.e., 400 m
And the last runner covers 1 round i.e., 200 m.
*Top runner covers 800 m race in 10 minutes.*

Suggested Reading: Problems related to velocity, distance travelled and timetaken.
" For a swift review of the subject, kindly consult the study materials available on the website"

VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
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In a housing society, 30 per cent of the residents are men over the age of 18 and 40 per cent are women over the age of 18. If there are 24 children living in the housing society, then how many total residents live?
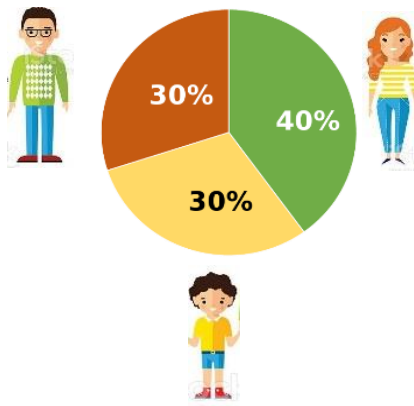
A. 32	B. 80
C. 94	D. 112

Answer key:

B. 80

Theory:

Residents as men of 18+   = 30%
Residents as women of 18+   = 40%
No. of children   = 24
Let the total no. of residents be 'x'.
So, there are (100 - 30 - 40)% children in the house.
From the above,

$$0.30 x = 24$$
$$x = 80 \text{ residents}$$

Suggested Reading: Percentage
" For a swift review of the subject, kindly consult the study materials available on the website"

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

A _____ is a sloping way which connects between the floors in a building and it is adopted as a substitute for stair.
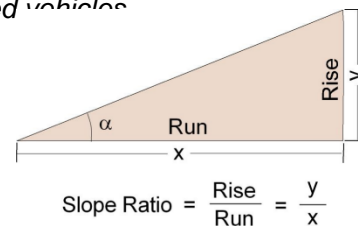

Source: istockphoto.com

A. Rise	B. Landing
C. Ramp	D. String

Answer key: C. **Ramp**	**Theory:** *A ramp is a sloped pathway used to provide access between two vertical levels. It facilitates the movement of wheelchairs, bicycles, and other wheeled vehicles*

$$\text{Slope Ratio} = \frac{\text{Rise}}{\text{Run}} = \frac{y}{x}$$

Suggested Reading: Basics of building construction/Components
" For a swift review of the subject, kindly consult the study materials available on the website"

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VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

The Houses of Parliament in London are known for their iconic:

Source: Houses of Parliament, London | Structure Townhouse Hyde Park

A. Great wall	C. Big Ben clock
B. Leaning Tower	D. Hanging gardens

Answer key:

C) Big Ben Clock

Theory:

Explanation: While the Houses of Parliament have several notable features, the iconic Big Ben clock tower with its booming bells is the most instantly recognizable element.

Suggested Reading: History Of Architecture
" For a swift review of the subject, kindly consult the study materials available on the website"

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Which stage of the design thinking process involves brainstorming and generating multiple ideas?

A. Define

B. Ideation

C. Prototype

D. Test

Answer key:

B. Ideation

Theory:

The ideation stage in design thinking is where architects brainstorm and explore various ideas without judgment, aiming to generate a wide range of potential solutions to the problem at hand.

Suggested Reading: Design Thinking
" For a swift review of the subject, kindly consult the study materials available on the website"

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Find the synonym of the underlined word.

.

He was advised to curb his <u>inquisitive</u> nature

A. Eager	C. Curious
B. Aggressive	D. Boisterous

Answer key:

C. Curious

Theory:

The meaning of the given options are:
Eager means willingness, aggressive means showing excessive force of display of excessive vigor or energy, boisterous means highly animated and active and inquisitive means being curious or having the curiosity to know or being very interested.
So, the right answer is C) Curious.

Suggested Reading: Synonyms
" For a swift review of the subject, kindly consult the study materials available on the website"

VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY

GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN

DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Select the lettered pair that has the same relationship as the original pair of words.

.

Textile : Mill

A. A. Eggs : Hen	C. Food : Agriculture
B. . Coal : Mine	D. Brick : Kiln

Answer key:

D. Brick : Kiln

Theory:

Second is the place where the first is manufactured

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A tourist is shooting photographs of an ancient building from four locations A, B, C and D marked by x. The tourist is using only one camera without changing its magnification. Identify the location(s) in the floor plan which will result in the given photograph.

Floor Plan

Front View

Side View
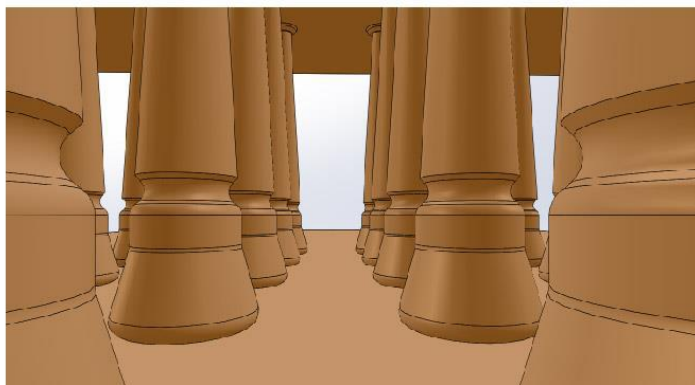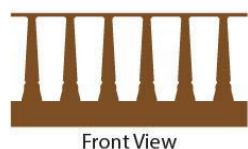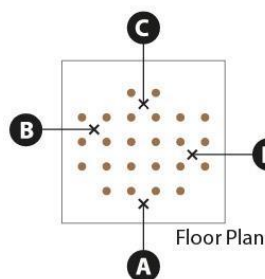
Photograph

A. A,B,C

B. A,C,D

C. A,D

D. B,D

Answer key:

C. A,D

Theory:

A,D: We can infer the following from the figures:
I1: On either side of the centre, we can count a total of 5 columns each on left and right sides.
I2: We can also view partially the outer row of columns aligning with the 3rd and 4th columns on the left and right sides.
With these observations let us consider each position –
A – All the above conditions are satisfied. It is one of the right positions.
B – I 1 is satisfied but I 2 is not as this view does not have a column aligning with the 4th column on the left
C – I 1 is not satisfied as there are a total of only 4v columns on each side.
 D – Satisfies I1 and 2 and so Is also the correct option.

Suggested Reading: Principles of design
" For a swift review of the subject, kindly consult the study materials available on the website"