

NATA 2020 CAAD BITESIZE 15.08.2020 DAILY PCQ/MCQ LESSONS

PREPARED BY EXPERTS IN ARCHITECTURE EDUCATION

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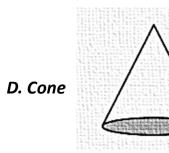
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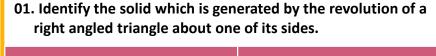
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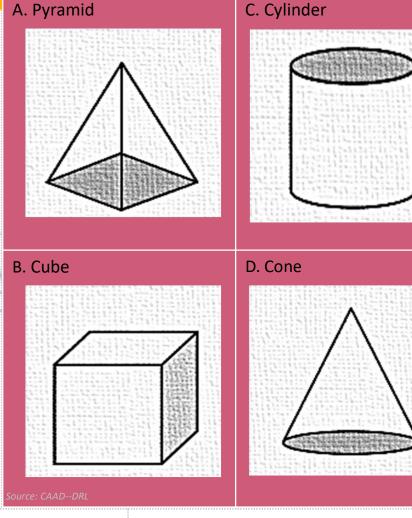
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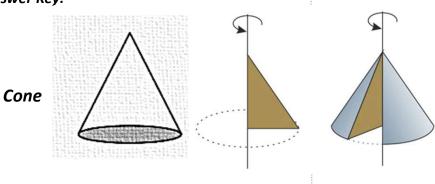
- ELEMENTS OF DESIGN -Visual Principles in Composition
- PRINCIPLES OF DESIGN Visual Principles of Composition
- **ORGANISING PRINCIPLES -**Spatial Relationship between objects
- GEOMETRY Spatial Intelligence & Graphical Similarities
- COLOUR Colour Scheme Awareness & Knowledge
- LIGHT & SHADOW Creative Expression
- VISUAL COMPOSITION Visual Principles of Composition
- PERSPECTIVES Visual images & Scenarios & Interpretation

Answer Key:









Theory: Cone

A solid generated by the revolution of a right angled triangle about one of its sides. Like the cylinder, the cone is a highly stable form when resting on its circular base.

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Answer Key:

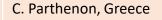
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- 02. Identify the building which follows asymmetrical balance as the design principle.
- A. Lotus temple, India.







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D. Taj Mahal, India



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Theory:

ASYMMETRY

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Asymmetrical or Informal balance parts of the design are not identical but are equal in visual weight on opposite sides of dividing plane or about a centre axis

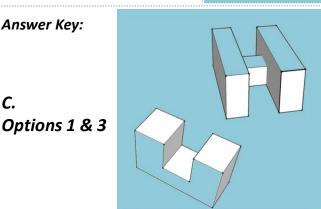
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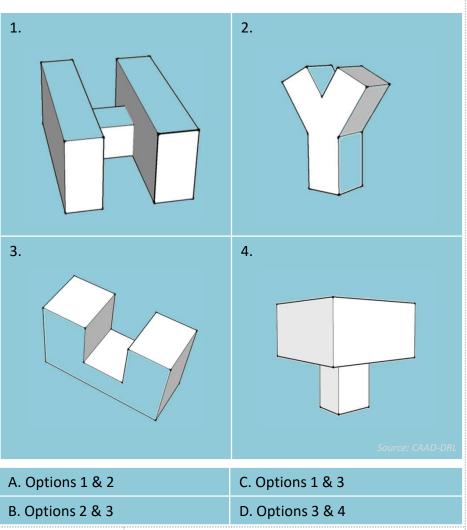
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03. Which options below have a common intermediate space?



Theory:

Spaces linked by a common space (Spatial relationship)- Two spaces which are separated by a distance can be linked or related to each other by a third, intermediate space. The visual and the spatial relationship between the two spaces depends on the nature of the third space.



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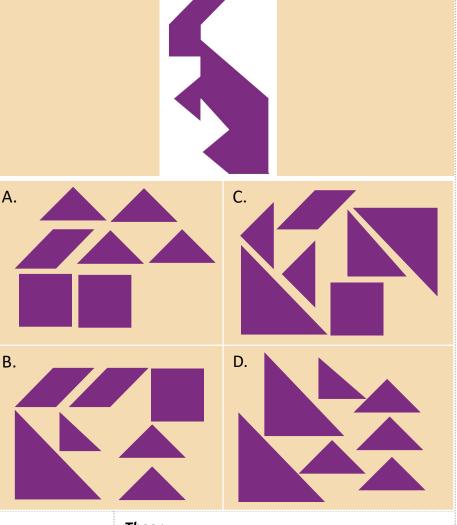


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Β.

- LIGHT & SHADOW Creative Expression
- VISUAL COMPOSITION Visual Principles of Composition
- PERSPECTIVES Visual images & Scenarios & Interpretation
- Answer Key: С.

04. Identify the group of shapes that can be combined to get this rabbit.



Theory:

COMBINING TWO-DIMESNIONAL SHAPES

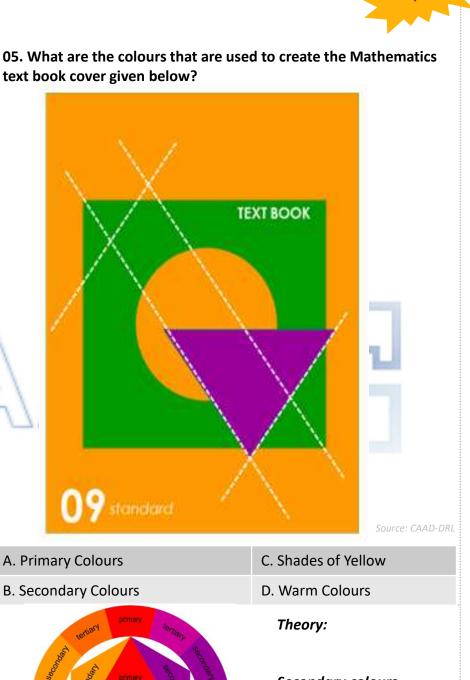
In this pattern, question comprise of series of two dimensional shapes which are cut from a parent shape. The question is to identify the parent shape. Same can be asked vice-versa.

Key Strategy: Observe parent shape from the choices and look for distinct features that matches with the element. Also parent shape does not have elements sticking out.

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- Answer Key:
- **B. Secondary Colours**



Secondary colours

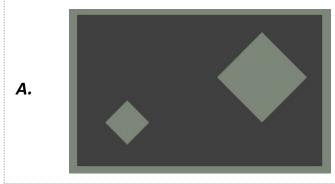
These are the colours formed by mixing the primary colours.

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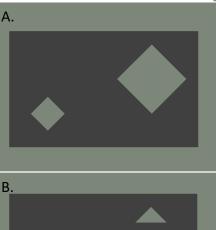


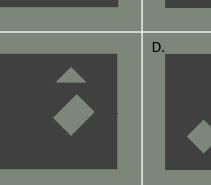
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Answer Key:



06.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?





C.



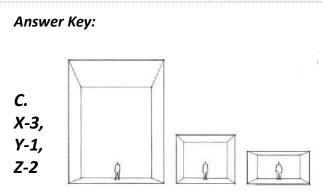
Shadows are the relatively dark figures cast upon a surface by an opaque body or part of a body intercepting the rays from a light source.

- 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 seen detached from the object

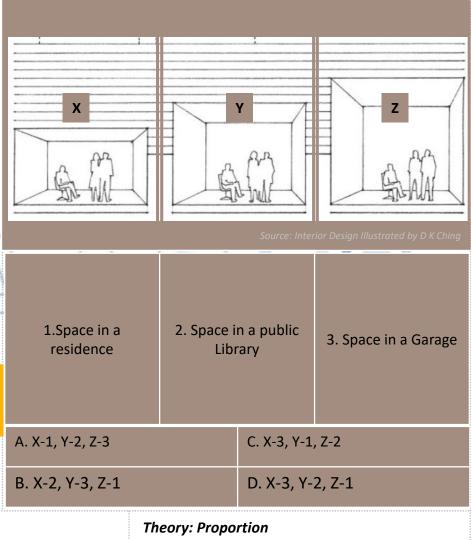
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07. Based on human proportions, match the correct spaces with the images given below.



Proportion refers to the relationship of one part to another or to the whole, or between one object and another. This relationship may be one of magnitude, quantity, or degree.

The height of the space is perceived in proportion to the human height and it dictates the spatial usage. Measurable change in the height of a ceiling seems to have a greater effect on our impression of a space

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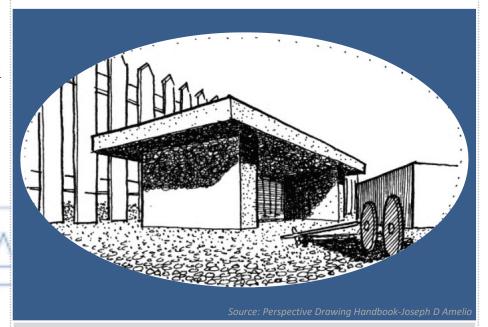


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Answer Key:

D. A person falls near the bench and looks at the bench raising its head.

08. A father and his 3 year old kid is playing near a bench in an park. Suddenly a person who comes to pick a ball near the bench trips off. Among the father, child and the fallen person, who will be viewing the bench, as given below.



- A. Father of the kid near the bench is viewing it.
- B. The child playing with a toy near the longer side of the bench is viewing it.
- C. The child playing with a toy near the shorter side of the bench is viewing it.
- D. The fallen person looks at the bench raising its head.

Theory:

TWO POINT PERSPECTIVE:

Two point perspective (angular perspective) has two vanishing points on the horizon line, which do not necessarily need to be within the picture plane. If the object is above the horizon line, the viewer can see the base of the object

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SEE YOU TOMORROW WITH BITESIZE 15

EXPLANATORY NOTES ATTACHED BELOW WILL HELP YOU SOLVE SIMILAR MCQ/PCQ QUESTIONS

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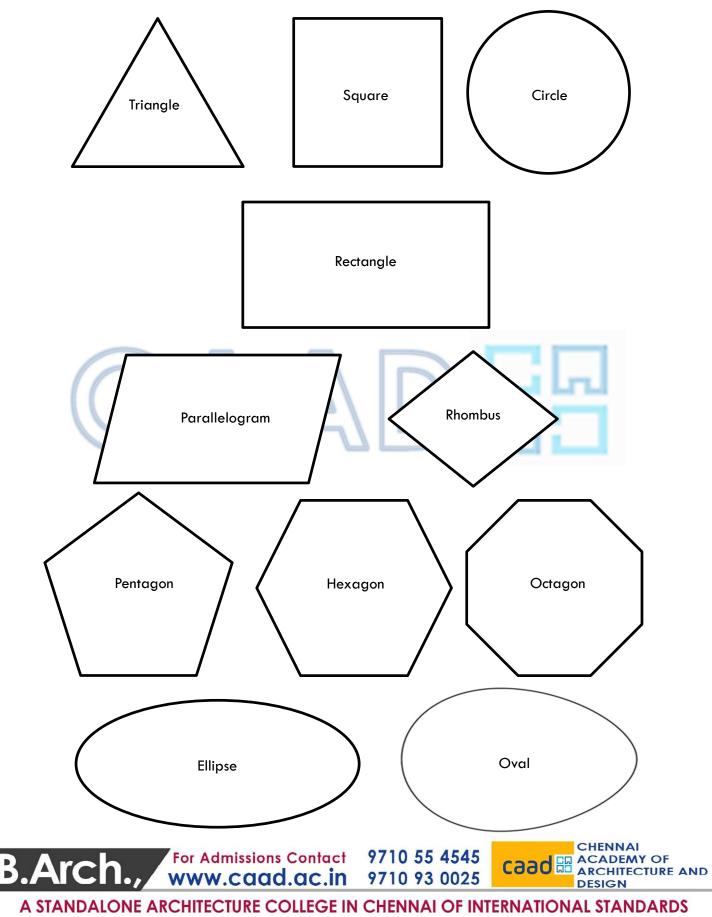
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ELEMENTS OF DESIGN

(Visual Principles of Composition)

INTRODUCTION TO BASIC SHAPES

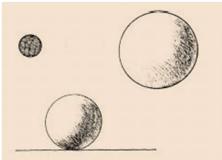


ELEMENTS OF DESIGN (Visual Principles of Composition)

INTRODUCTION TO PRIMARY SOLIDS

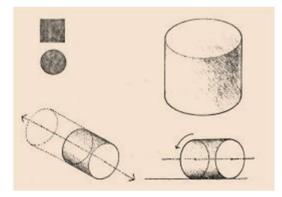
<u>SPHERE</u>

A solid generated by the revolution of a circle about its diameter. It has no directional quality, neither horizontal nor vertical, but simply static A sphere is a centralized and highly concentrated form. It is self-centred & normally stable in its environment. In any point it retains its circular shape.



CYLINDER

A solid generated by the revolution of a rectangle about one of its sides. A cylinder is centralized about the axis passing through the centres of two circular faces. A cylinder is stable if its rests on its one of the circular faces.



<u>CONE</u>

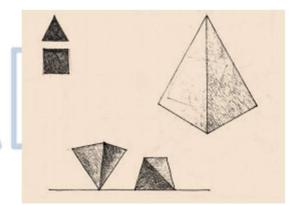
A solid generated by the revolution of a right triangle about one of its sides. Like the cylinder, the cone is a highly stable form when resting on its circular base. It can also rest on its apex in a precarious state of balance.

Reference: Architecture Form, Space and Order - FRANCIS D.K CHING



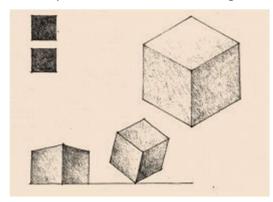
PYRAMID

A polyhedron having a polygonal base and triangular faces meeting at a common point or vertex. The pyramid has properties similar to those of the cone. Because all of its sides are flat planes. However its stable on all its faces.



<u>CUBE</u>

Prismatic solid bounded by six equal square sides, the angle between any two adjacent faces being a right angle. It is stable on all its sides excepts when it stand on its edges.

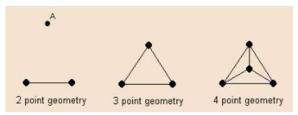


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(Visual Principles of Composition) **ELEMENTS OF DESIGN**

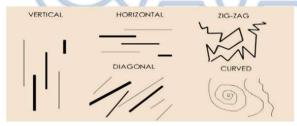
POINT

A point or mark is the smallest and most basic element. The single point represents a visual stop. Two points represent a direction. Three points makes the eyes move in a closed path. They signify a shape.



LINE

Point that is extended along a direction. Line has length and describes a point in motion. Expresses direction, movement and growth. Line also defines the edges of planes and give them the shape. A Line can articulate the surfaces of planes. A line is a form with width and length, but no depth. The direction, weight, and character of line convey many different states and emotions.



SHAPE

Shape is an area that is contained within implied lines. Shapes have two dimensionslength and width, and can be geometric or freeform. A shape is formed when the lines encloses an area. Shapes whether geometric or organic it adds interest to the design.



Reference: Architecture Form, Space and Order - FRANCIS D.K CHING

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INTRODUCTION TO ELEMENTS IN ARCHITECTURE

SPACE

Space is three-dimensional volume that can be empty or filled with objects. It has width, height, and depth. The form defines the space.

COLOUR

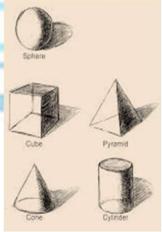
Colour adds the magic element to а design. Each colour has a mood, an emotion and different levels of significance.

Colours can reflect warm or cool, hard or soft, light or dark, passive or active, all of which when used individuallv or in combination of one another greatly affects the mood.





Form is any three dimensional object. They can be measured in terms of height, width, breadth. Form describes volume and mass, or the three dimensional aspects of objects that take up space.



TEXTURE

Texture refers to the surface quality. Textures more three-dimensional can create а appearance on this two-dimensional surface. it can be categorized as visual and tactile texture.



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(Visual Principles of Composition) **PRINCIPLES OF DESIGN**

INTRODUCTION TO PRINCIPLES IN ARCHITECTURE

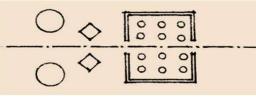
AXIS

A Line established by two point in space about which form and spaces can be arranged in symmetrical and balanced manner



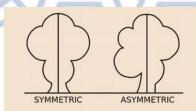
SYMMETRY

The balanced distribution and arrangement of equivalent forms and spaces on opposite sides of dividing plane or about a centre axis



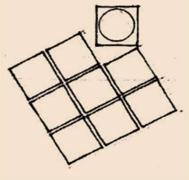
ASYMMETRY

Asymmetrical or Informal Balance Parts of the design are not identical but are equal in visual weight on opposite sides of dividing plane or about a centre axis



HIERARCHY

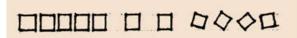
The articulation of importance and significance of form or space by its size shape and placement relative to other forms and spaces of organization



Reference: Architecture Form, Space and Order - FRANCIS D.K CHING

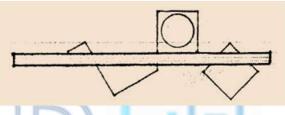
RHYTHM

Unifying movement characterized by patterned repetition or alteration of formal elements or motifs in same or modified forms



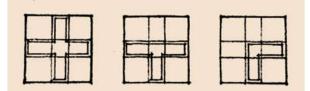
DATUM

A line plane or volume that , by its continuity and regularity, serves together, measure and organize a pattern of form and spaces.



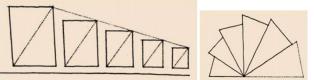
TRANSFORMATION

The principle that an architectural concept or organization can be retained, strengthened and built upon through a series of discrete manipulation and transformations.



REPETITION

Repetition refers to one object or shape repeated; pattern is a combination of elements or shapes repeated in a recurring and regular arrangement; Rhythm is a combination of elements repeated, but with variations



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ORGANISING PRINCIPLES

(Spatial Relationship between Objects)

INTRODUCTION TO SPATIAL RELATIONSHIPS



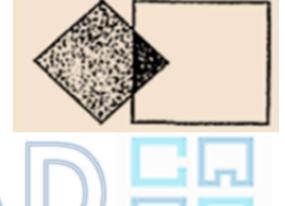
SPACE WITHIN A SPACE

A large space can envelope and contain a similar space within its volume. Visual and spatial continuity between the two spaces can be easily accommodated

INTERLOCKING SPACES

An interlocking spatial relationship results from the overlapping of two spatial fields and the emergence of a zone of a shared space. Each space interlocking retains its identity. But the intersection of two spaces is subjected to a number of interpretations



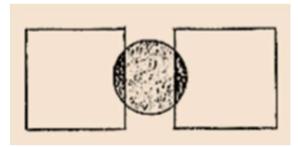


ADJACENT SPACES

Two spaces may abut each other or share a common border. It allows each space to be clearly defined and to respond, each in its own way to functional or symbolic requirements

SPACES LINKED BY A COMMON SPACE

Two spaces which are separated by a distance can be linked or related to each other by a third, intermediate space. The visual and the spatial relationship between the two spaces depends on the nature of the third space.



Reference: Architecture Form, Space and Order - FRANCIS D.K CHING



ORGANISING PRINCIPLES

(Spatial Relationship between Objects)

INTRODUCTION TO SPATIAL ORGANIZATION

CENTRALIZED ORGANIZATION

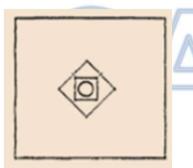
A centralized organization is a stable, concentrated composition that consists of a number of secondary spaces grouped around a large, dominant central space. The central unifying space of the organization is generally regular in form and large enough in size to gather a number of secondary about spaces its perimeter.

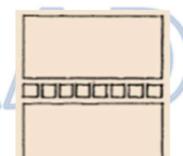
LINEAR ORGANIZATION

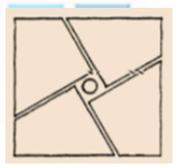
А linear organization consists essentially of a series of spaces. These spaces can either be directly related to one another or be linked through a separate and distant linear space. It usually consists of repetitive spaces which are similar in size, form and function. It may consist of a single linear space that organizes along its length a series of spaces that differ in size, form and function.

RADIAL ORGANIZATION

A radial organization of space combines elements of both centralized and linear organizations. It consists of a dominant central space from which a number of linear organizations extend in a radial manner. Whereas a centralized organization is an introvert scheme that focuses inward on its central space a radial organization is an extrovert plan that reaches out to its context.





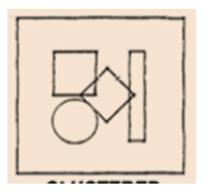


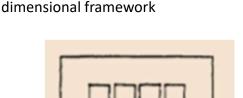
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CLUSTERED ORGANIZATION

A clustered organization grouped by proximity or the sharing of a common visual trait or relationship





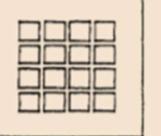
Space organized within the field of a

or

GRID ORGANIZATION

grid

structural



Reference: Architecture Form, Space and Order - FRANCIS D.K CHING



GEOMETRY

(Spatial Intelligence & Graphical Similarities)

INTRODUCTION TO SPATIAL ABILITY ASSESSMENT (Few Samples)

01. SHAPE MATCHING (TWO DIMENSIONAL)

04

In this method, two groups of simple, flat objects are given and the question is to match the pairs by same size and shape. Each drawing in the first group is exactly the same as a drawing in the second group. The objects in the second group may have been moved and some may have been rotated.

02. VISUAL COMPARISION (TWO DIMENSIONAL)

Several objects will be grouped together in the question and the identical pair has to be marked out.

03. GROUP ROTATION (TWO DIMENSIONAL)

In this method, the task is to identify the choices to the original shape/pattern. The multiple choices comprise of the original shape/pattern after single/ multiple rotations.

Key Strategy - Choose the asymmetrical shape in the group and determine how the shape would look when rotated clockwise or anticlockwise.

04. COMBINING TWO-DIMESNIONAL SHAPES

In this pattern, question comprise of series of two dimensional shapes which are cut from a parent shape. The question is to identify the parent shape.

Key Strategy: Observe parent shape from the choices and look for distinct features that matches with the element. Also parent shape does not have elements sticking out.

05. CUBE VIEWS IN THREE DIMENSIONS

These questions comprise of different views of a patterned cube. Question will be to identify the pattern on a particular face of the cube.

Key Strategy: Use the process of elimination

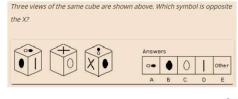
None of C D Answer: C

Components Complete Shan

Answer: B

These

E

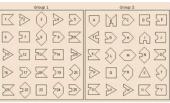




Reference: www.wikijob.co.uk.



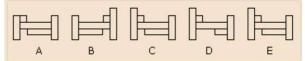
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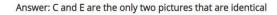


Question Figure

Answer Figures

Answers: 1. X; 2. P; 3. M; 4. V; 5. G; 6. A; 7. D; 8. T; 9. C; 10. B; 11. W; 12. E; 13. U; 14. Y; 15. F; 16. S; 17. H; 18. K; 19. J; 20. L; 21. O; 22. N; 23. Q; 24. R; 25.1







GEOMETRY

(Spatial Intelligence & Graphical Similarities)

Which of the cubes shown could be made from the pattern

INTRODUCTION TO SPATIAL ABILITY ASSESSMENT

06. CUBES IN TWO & THREE DIMENSIONS

These type of questions have the layout of the cube in two dimension and is to identify the right cube when the layout is folded. The question can be viceversa too.

Key Strategy - Mark the faces of the cube as Front, Back, Top, Bottom, Right side and Left side in the layout and work on the cube formation.

07. OTHER SOLIDS IN TWO & THREE DIMENSIONS

These questions use irregular solid shapes as a layout and the question is to identify the three dimensional form arrived at by folding. This is similar to cube exercise (Point no 6)

Key strategy - Use the process of elimination. Consider the connection between four visible faces and look out for patterns / shades.

08. TWO-DIMENSIONAL MAPS

Simple two-dimensional maps will be given in the question to test the ability to follow instructions and visualizing a route.

Key Strategy - Basic sense of direction and imagine yourself following the instructions.

09. BLOCK COUNTING IN THREE DIMENSIONS

This type of question will be having a three dimensional form made up of multiple units/ blocks, some of which may be hidden. The question will be to quantify the hidden elements that comprise the three-dimensional form.

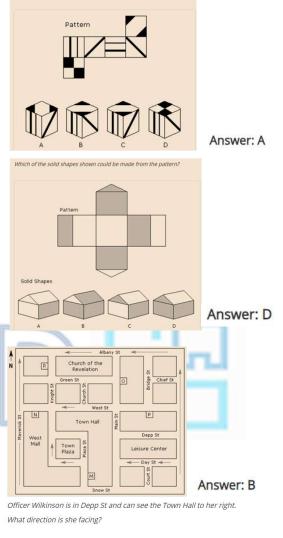
Key Strategy - Count the number of units as rows and columns and calculate the hidden blocks numerically.

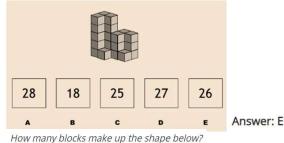
10 TWO - DIMENSIONAL MIRROR REFLECTIONS

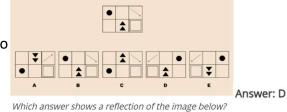
This question presents an image and will be asked to identify its mirror image.

Key Strategy - Use the process of elimination

Reference: www.wikijob.co.uk.







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04

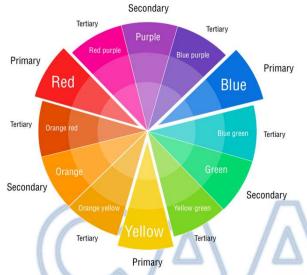
COLOUR THEORY

Colour Scheme Awareness & Knowledge

INTRODUCTION TO COLOUR THEORY

A colour circle, based on red, yellow and blue, is traditional in the field of art. Sir Isaac Newton developed the first circular diagram of colours in 1666. Since then scientists and artists have studied and designed numerous variations of this concept. Colour theory is a body of practical guidance to colour mixing and the visual effects of a specific colour combination. There are also definitions (or categories) of colours based on the colour wheel: primary colour, secondary colour, and tertiary colour.

COLOUR WHEEL



NEUTRAL COLOURS

Grey, Brown. These are not on most colour wheels, but they're considered neutral because they don't contrast with much of anything.

TINTS, SHADES AND TONES

Tint – adding white to pure colour

TINT

Shade – adding black to pure colour

SHADE

Tone – adding grey to pure colour

TONE

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.

SECONDARY COLOURS

These are the colours formed by mixing the primary colours.

TERTIARY COLOURS

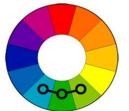
These are the colours formed by mixing a primary and a secondary colour. So it is referred as a two word name, such as blue-green, red-violet, and yellow-orange.

WARM & COOL COLOURS

<u>Warm colours</u>, such as red, yellow, and orange evoke warmth when observed.

<u>**Cool colours**</u>, such as blue, green, and purple (violet) evoke a cool feeling when observed.







<u>COLOUR</u> SCHEME/HARMONY

Complimentary colours

Red and Green, Blue and Orange, Purple and Yellow - located directly opposite to each other on the colour wheel.

Analogous Colours

Red and Orange, Blue and Green, etc. – located right next to each other on the colour wheel.

Triad Colours

Uses colours that are evenly spaced around the colour wheel.



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LIGHT & SHADOW

Creative Expression

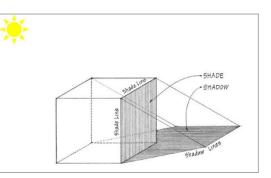
INTRODUCTION TO SCIOGRAPHY (SHADE & SHADOWS

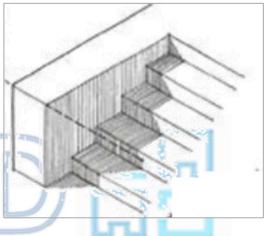
Sciography is a science of perspective dealing with the projection of shadows or delineation of an object in perspective with its gradations of light and shade.

SHADE & SHADOWS:

06

- Shade refers to the relatively dark area on those parts of a solid that are tangent to or turned away from a light source.
- 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.
- A shade line or casting edge separates an illuminated surface from one in shade.
- A shadow line is the shadow cast by a shade line on a receiving surface
- The shape of the shadow is dependent on
 - The position of shade line
 - The position of the observer
 - The direction of the light and
 - The form of the surfaces on which the plane of the shadow falls







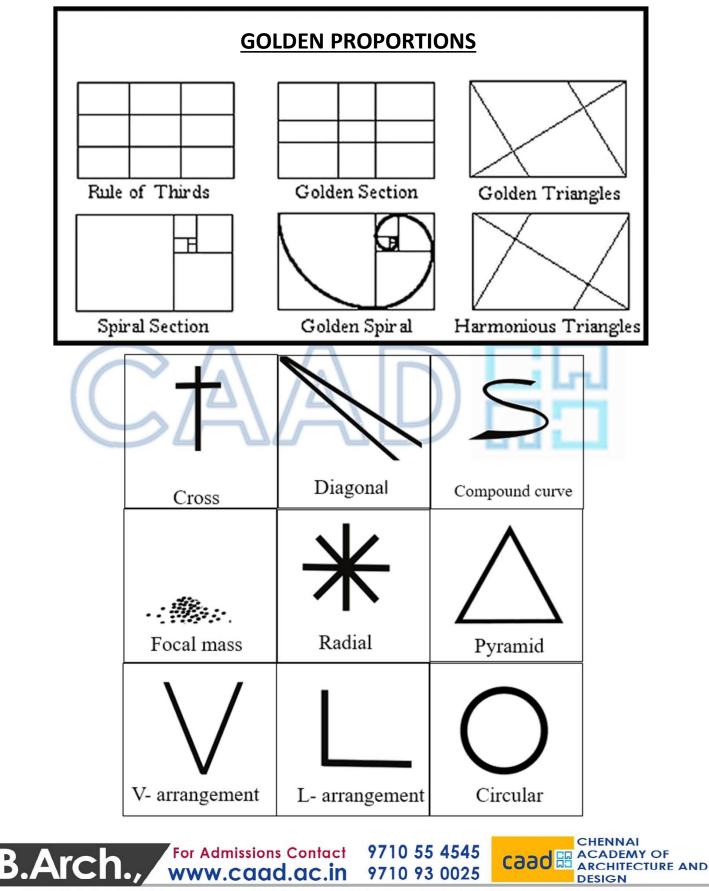


VISUAL COMPOSITION

07

Visual Principles of Composition

COMMON METHODS OF VISUAL COMPOSITION



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VISUAL COMPOSITION

Visual Principles of Composition

LAW OF **PROXIMITY:**

The closer objects are to each other, the more likely they are to be perceived as а group.



The above image is perceived as columns rather than rows



The above image is perceived as rows rather than columns

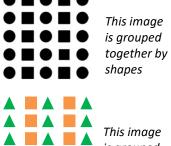
LAW OF GOOD PRAGNANZ:

"Prägnanz means, in simple terms, "good form" and refers to organizing shapes to simple forms. Figures are seen as their simple elements instead of complicated shapes." Prägnanz is a German word that directly translates to "pithiness" mean implies and the ideas of salience. conciseness and orderliness



LAW OF SIMILARITY:

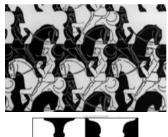
The shape, size, color, texture, create the actual image value or orientation will be seen as belonging together (form groups).



This image is grouped together by colours

LAW OF FIGURE -**GROUND:**

Figure and Ground explains how different elements are put together to make one scene or a whole image. "Figure" is the more dominant shape. "Ground" can be referred to as the background. Once the figure is identified, the rest of the image becomes the ground.





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INTRODUCTION TO GESTALT'S THEORY

In perception there is the tendency to complete unfinished or partially

LAW OF CLOSURE:

principle of similarity obscured objects. (If a large pattern is states that things which share with missing components, the eye visual characteristics such as tends to fill in the missing parts to

LAW OF SYMMETRY

The brain human perceives symmetrical objects as parts of the same group. They create an impression of stability and order.

LAW OF GOOD **CONTINUATION:**

Objects will be grouped as a whole if they are co-linear, follow direction. or а Objects arranged in either a straight line or a smooth curve tends to be seen as an unit. In cases where there is an intersection between objects, individuals tend to perceive the two objects as two single uninterrupted entities.

LAW OF COMMON FATE

It states that humans perceive visual elements that move in the same speed and/or direction as parts of a single stimulus. A common example of this is a flock of birds.





LAW OF PAST EXPERIENCE

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Elements or objects frequently seen together in the past experience of a person are perceived to be as a group or in one single entity. The below three colours are perceived as traffic lights



DESIGN

The eye perceives

the square

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PERSPECTIVES

Visual images & Scenarios & Interpretation

INTRODUCTION TO PERSPECTIVES

The way one see the world is driven by rules of perspective. Perspective in sketching is a tool to create a realistic illusion of three-dimensional space. Everything that is drawn, from an apple to a spaceship, needs to follow the rules of perspective in order to look realistic.

ONE-POINT PERSPECTIVE:

TWO-POINT PERSPECTIVE:

One-point perspective (frontal central or perspective) has only one vanishing point on the horizon line located somewhere within the picture plane (PP) and all the planes converge towards it.

Two-point perspective (angular perspective) has two vanishing points on horizon the line, which do not necessarily need to be within the picture plane (PP)

THREE-POINT PERSPECTIVE:

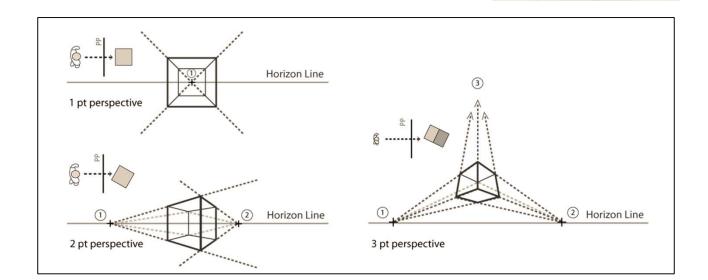
Three-point perspective uses three vanishing points where two of them are on the horizon line and the third is either high above the horizon line or below it. There are two basic types of three-point perspective based on the position of the horizon line:

Worm's Eye View

The view perceived when a person looking high up, the horizon line is situated very low.

Bird's Eye View

The view perceived when a bird views over a city and looking down, the horizon line is situated above.



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