

▪ **DIAGRAMMATIC REASONING / LOGICAL REASONING**

▪ **NUMERICAL REASONING**

▪ **VERBAL REASONING / SITUATIONAL JUDGEMENT**

▪ **INDUCTIVE REASONING**

▪ **ABSTRACT REASONING**

▪ **ART MOVEMENT AND HISTORY**

▪ **VISUAL PERCEPTION**

▪ **BUILDING MATERIALS AND CONSTRUCTION**

01. Identify the tree which is far away from the observer.



Source: CAAD-DRL

A. 1

D. 3

C. 2

D. 4

Answer key

D. 4

Theory

The object which is far away from the observer will appear smallest in size with lesser details.

The answer lies in the concept of perspective and the difference between apparent size and actual size. The visual angle that determines apparent size can be thought of as the angle at the top of a triangle. The eye is the top of the triangle, and the bottom of the triangle is formed by the ends of the object you're looking at.

As an object gets closer, the visual angle increases, so the object appears larger. As the object moves farther away, the visual angle decreases, making the object appear smaller.

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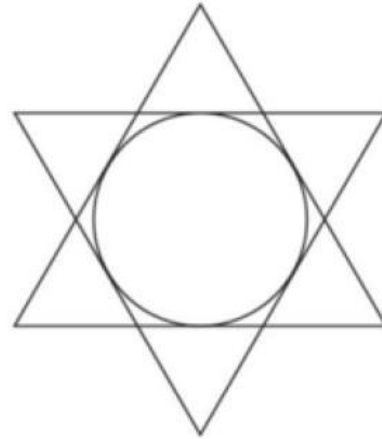
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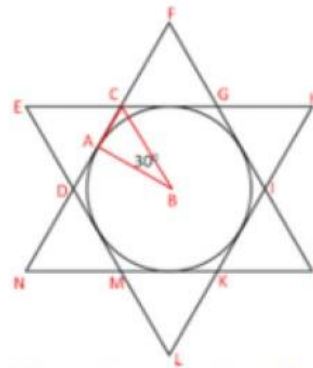
▪ VISUAL PERCEPTION

▪ BUILDING MATERIALS AND CONSTRUCTION

02. The figure shows two concentric equilateral triangles with a circle within, such that the circle touches all the edges of the triangle. If the radius of the circle is $\sqrt{3}$, what is the total length of the star shaped outer border formed by the two intersecting triangles?



Theory



AB is the radius of the circle, which is $\sqrt{3}$ and ABC makes 30 degrees at the center (because ABC is $1/12$ th of the total circle)

From triangle ABC ,

$$\tan(30) = AC/AB = AC/\sqrt{3}$$

$$AC = \tan(30) * \sqrt{3} = \sqrt{3} / \sqrt{3} = 1$$

Since $AC = 1$,

$$CD = 1 \times 2 = 2$$

Also, $CE = ED = DN = MN = LM = KL = JK = IJ = HI = GH = FG = CF = 2$

Total length of outer border = $12 \times 2 = 24$

Answer key

24

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03. In this questions, two sentences (I) and (II) are given. Each sentence has a blank in it. Four words (a), (b), (c) and (d) are suggested, Out of these, only one fits at both the places in the context of each sentence. Number of that word is the answer.

- I. There is a complaint against him that he ____ the mistakes of his juniors.
- II. A good thing about this house is that it ____ the sea.

A. ignores

B. promotes

C. overlooks

D. faces

Answer key:

C. overlooks

Explanation

In the first line overlooks refers to - to fail to notice or consider something or someone

In the second line overlooks means - to provide a view of, especially from above

The other three options do not give meaning when used in the two sentences.

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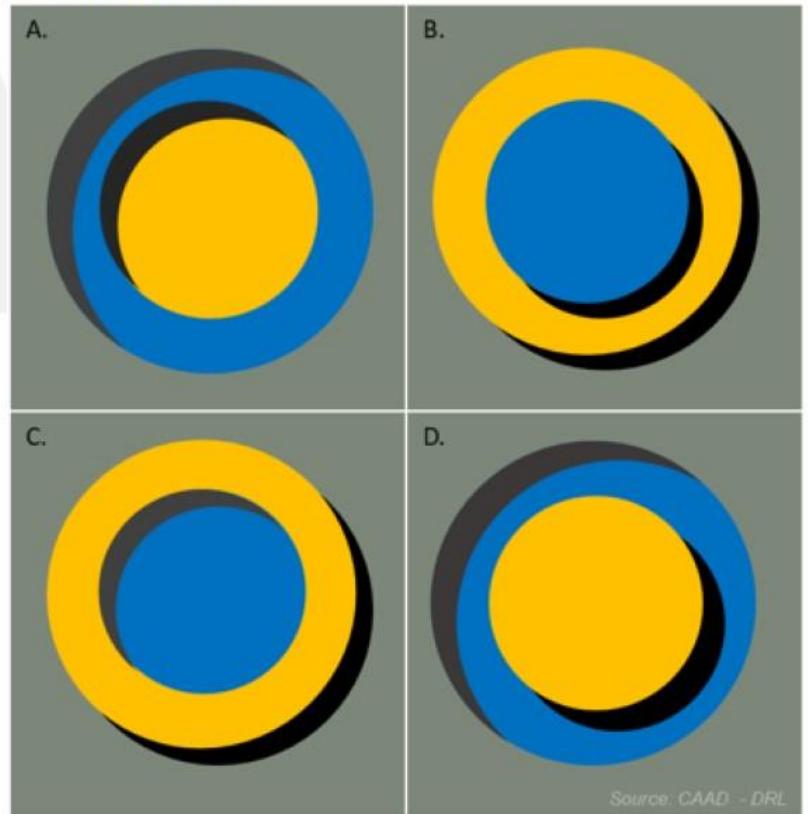
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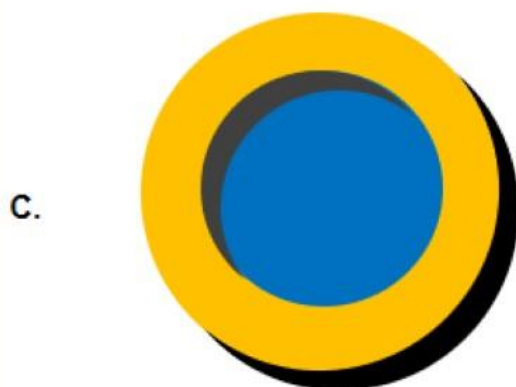
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04. In an apartment, Anjali is playing in a kids' play area. There are many installations having different levels for her to jump up and down. In one object, she steps up and jump inside. Identify the object from the given images, based on the shadow cast.



Source: CAAD - DRL

Answer key



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

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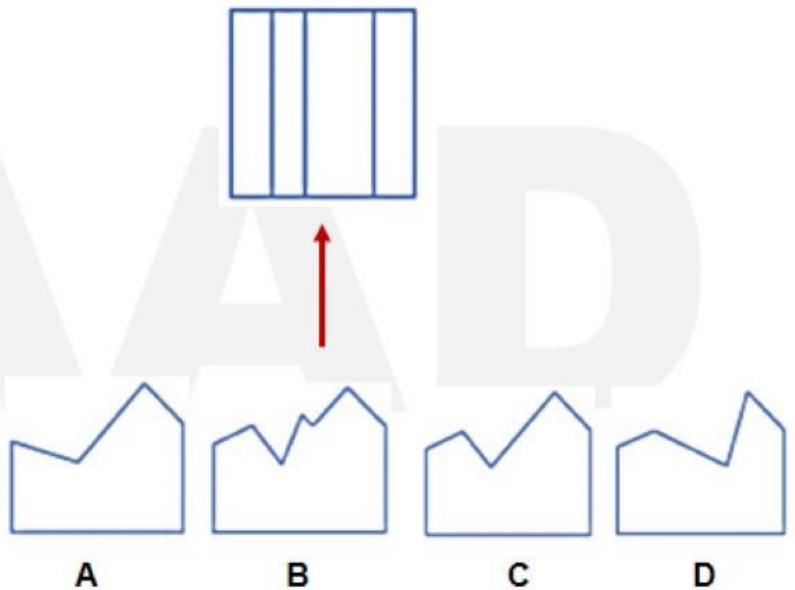
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05. The figure shows the top view of an object. Identify the correct elevation looking in the direction of the arrow.



A. Option A

B. Option B

C. Option C

D. Option D

Answer key



Theory



The lines inside the red circles are the lines which are not possible in the front view. So Option C is correct.

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06. The front side or the face of a building is called a _____.



Source: nps.gov.in

A. Facade

B. Beam

C. Wall

D. Foundation

Answer key

A. Facade

Theory

A *façade* or *facade* is generally the front part of exterior of a building. It is a loan word from the French *façade* ([fasad]), which means "frontage" or "face". In architecture, the *façade* of a building is often the most important aspect from a design standpoint, as it sets the tone for the rest of the building.

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07. What is the type of Balance in the image below?



A. Radial

B. Asymmetrical

C. Symmetrical

D. Rock

Answer key

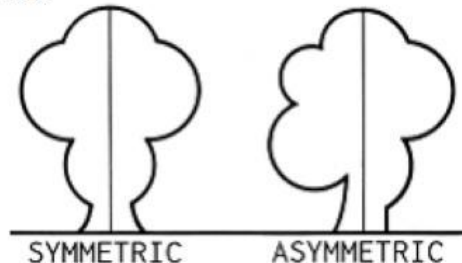
B. Asymmetrical

Theory:

Symmetry: The balanced distribution and arrangement of equivalent forms and spaces on opposite sides of a dividing line or plane, or about a center or axis.

Asymmetrical balance:

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



SYMMETRIC

ASYMMETRIC

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08. *Assertion A:* Cork flooring is suitable for use in churches, theatres, public libraries

Reason R: It acts as an acoustic insulator

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is not the correct explanation of A
3. A is true but R is false
4. A is false but R is true

A. Option - 1

B. Option - 2

C. Option - 3

D. Option - 4

Answer key

A. Option - 1

Theory

Cork is also a natural thermal and acoustic insulator, which means rooms with cork flooring are naturally warm and quiet. Aesthetically versatile cork flooring is available in tiles and planks in many styles, colors and sizes..



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