

NATA 2021 CAAD BITESIZE

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Prepared by
**EXPERTS IN
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▪ **NUMERICAL REASONING**

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▪ **INDUCTIVE REASONING**

▪ **ABSTRACT REASONING**

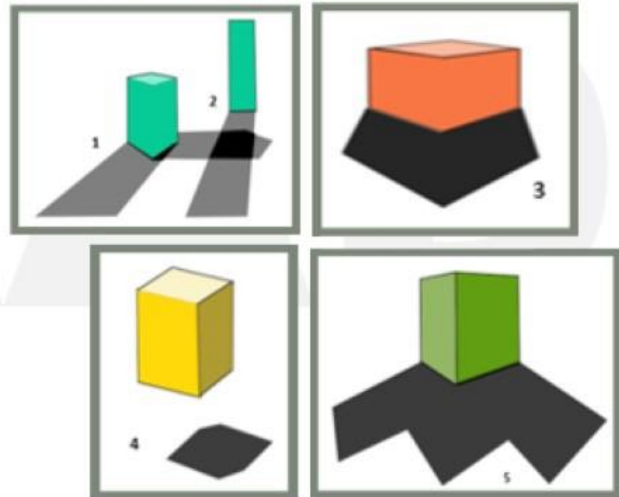
▪ **ART MOVEMENT AND HISTORY**

▪ **VISUAL PERCEPTION**

▪ **BUILDING MATERIALS AND CONSTRUCTION**

01. Match the following statements with the right image options.

- Shadow cast by planar surface.
- Object is lit by more than one light source
- Source light is directly to top of the object.
- Object is not resting on the ground plane.



A.	a - 1	c - 3	B.	a - 2	c - 3,4
	b - 2	d - 4		b - 1,5	d - 4
C.	a - 4	c - 2	D.	a - 2	c - 3,4
	b - 3	d - 1		b - 4	d - 1

Answer key

B.

B.	a - 2	c - 3,4
	b - 1,5	d - 4

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 appear detached from the object.

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02. The ratio of the 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:

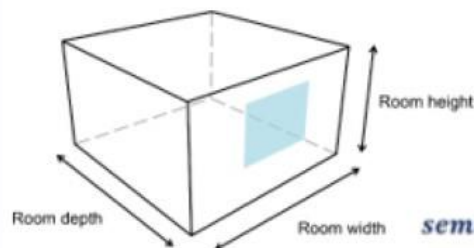
A. 4.2M

B. 6M

C. 4M

D. 3.9M

Ratio of Room Height : Semi-Perimeter
2 : 5



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

Theory

Let $h = 2x$ metres and $(l + b) = 5x$ metres.

Length of the paper = $\frac{\text{Total cost}}{\text{Rate per m}} = \frac{260}{2} \text{ m} = 130 \text{ m}$.

Area of the paper = $(130 \times 50/100) \text{ m}^2 = 65 \text{ m}^2$

Total area of 4 walls = $(65 + 16) \text{ m}^2 = 80 \text{ m}^2$

$\therefore 2(l + b) \times h = 80 \Rightarrow 2 \times 5x \times 2x = 80$

$\Rightarrow x^2 = 4 \Rightarrow x = 2$.

Height of the room = 4 m.

Answer key

C. 4M

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03. Read the following sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is E.

- A. It is quarter
- B. to eight by my watch
- C. though the clock
- D. has struck eight.
- E. No Correction

A. It is quarter

B. to eight by my watch

C. though he clock

D. has struck eight

Answer key:

A. It is quarter

Explanation

It is a quarter to eight is the correct part of the sentence..

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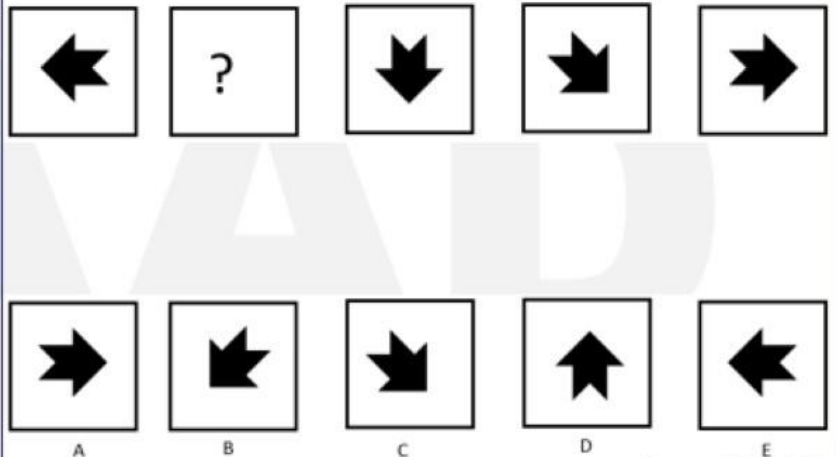
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04. Which of the following should replace the question mark to complete the pattern?



Source: CAAD DRI

Answer key

B



Theory

The shape within the element rotates 45 degrees counterclockwise in each step.

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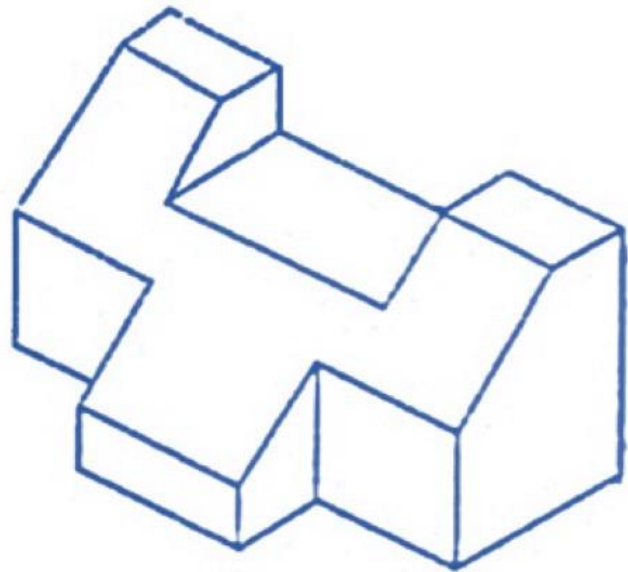
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05. Find the total number of surfaces in the solid figure given below.



A. 13

B. 16

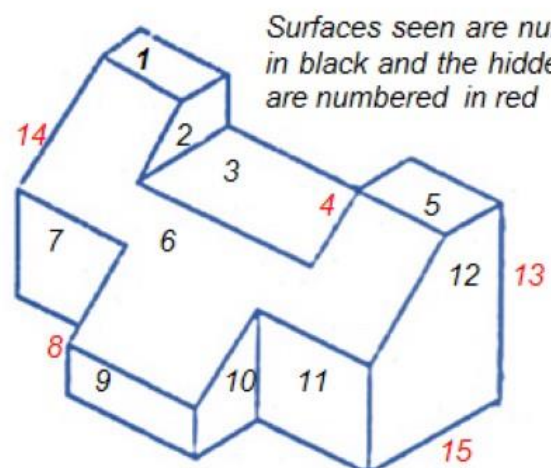
C. 15

D. 14

Answer key

C. 15

Theory



Surfaces seen are numbered in black and the hidden ones are numbered in red

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06. Where in India is this famous temple located?



A. Hampi

B. Ajanta Ellora

C. Madurai

D. Mahabalipuram

Answer key

A. Hampi

Theory

Also known as the Pampapathi temple, it is the most famous temple in Hampi and dates back to the 7th century. The temple is believed to be an abode to one of the forms of Lord Shiva called Lord Virupaksha. While it is located in present day Hampi, it was once a smaller shrine in the middle of the ancient and majestic Vijayanagara empire.

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07. Identify the theory of visual composition used in the following famous logos.

1.



2.



3.



4.



A. Common Fate

B. Closure

C. Continuity

D. Similarity

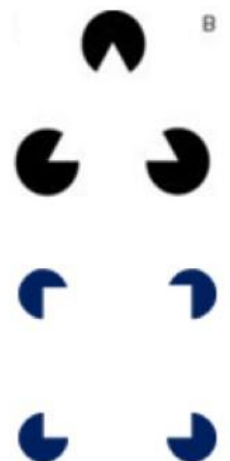
Answer key

B. Closure

Theory:

Law of Closure (Gestalt principles)

In perception there is a tendency to complete unfinished or partially obscured objects. (If there is a large pattern with missing components, our mind tends to fill in the missing parts to perceive a complete image.)



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08. Sewer pipes used in residential buildings are predominantly made of_____.

A. PVC

B. Fiber glass

C. Copper

D. All of the above

Answer key

A. PVC

Theory

Polyvinyl Chloride (PVC) pipes are the most common type of sewer line pipes today. Plastic pipework is lightweight, durable, easy to use, and resilient. When installed properly, PVC pipe is long-lasting and lowers the maintenance cost.



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