

NATA 2021 CAAD BITESIZE

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**BITESIZE
09**

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▪ 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. For St+art Goa 2018, anonymous Indian street artist DAKU created a temporary installation, a set up in the middle of a street in Panjim. The shadow installation is created by series of alphabets suspended using fishing nets over the street. Identify the image which shows the shadows cast at 12.00 noon.

Source "DAKU's Shadow Installation". 2020. St+Art (En). <https://st-artindia.org/project/dakus-shadow-installation>.



Answer key

D.



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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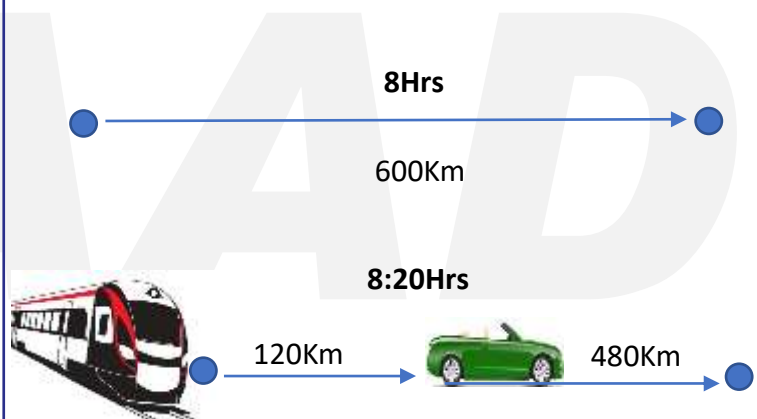
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02. It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the speed of the car is :



A. 4:3

B. 3:4

C. 3:2

D. 2:3

Answer key

B. 3:4

Theory

If 80 km car journey is replaced by train journey, it will take 20 minutes more.

Therefore if 480 km car journey is replaced by train journey, it will take $(6 \times 20) = 120$ minutes = 2 hr more.

This means, if whole journey is done in train, it will take $(8+2) = 10$ hr.

That is, **speed of train** = $600/10 = 60$ km/hr

Since train needs only $120/60 = 2$ hr to cover 120 km,

car covers rest 480 km in $8-2 = 6$ hr and

hence **speed of car** = $480/6 = 80$ km/hr

Required ratio = $60:80 = 3:4$

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03. Read the passage and determine the correct answer:

- Choose **True** if the statement has to be true according to the passage.
- Choose **False** if statement has to be false according to the passage.
- Choose **Cannot say** if you cannot determine whether the statement is true or false without further information.
- REMEMBER: you have to base your answers only on the information given in the text

Passage: Companies wishing to increase their growing pace occasionally use the method of franchising which provides a new owner with the permit to use their business identity and in return to purchase products exclusively from the company. However most companies will aim to minimise the use of this method and often prefer the expansion of the companies' own branches. Companies who have previously used franchising learnt the essential need to monitor the business operation of the franchised branch.

Difficulties arise from franchisees and companies disagreeing on business policies such as customer care, service delivery efficiency and quality of human interaction. Inadequate attention to the monitoring of franchisees on the part of the companies is typically the cause of subsequent problems.

Service delivery efficiency has reduced companies' will to franchise.

A. True

B. False

C. Cannot say

Explanation:

The text explains that service delivery efficiency is a cause for disagreement between franchisees and companies, but it doesn't mention whether this is why companies are reluctant to franchise.

Answer key:

C. Cannot say

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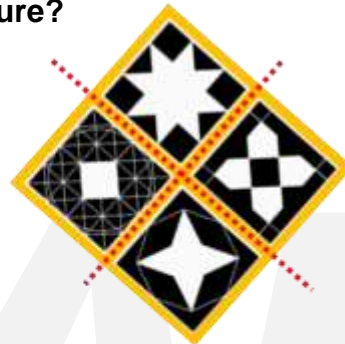
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04. Which of the same figure is a rotation of the question figure?



Source: CAAD- DRL

A.



B.



C.



D.



Answer key

D.



Theory

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.

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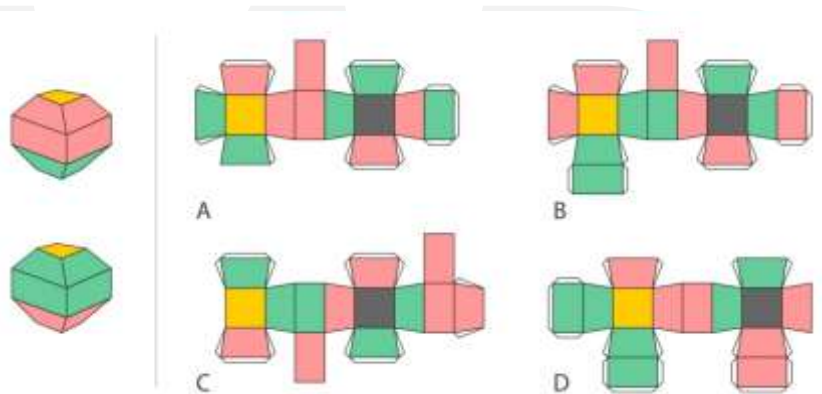
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05. Which option is correct?



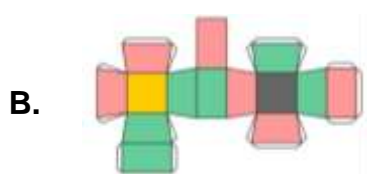
A. Option A

B. Option B

C. Option C

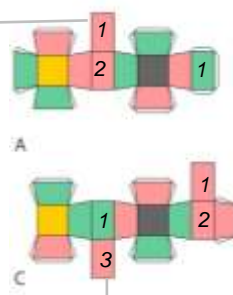
D. Option D

Answer key

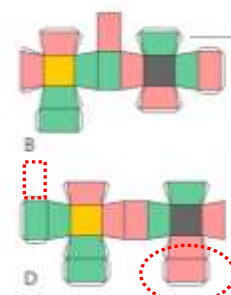


Theory

The rectangular boxes should be 2 rose and 2 green. But here there is only one green box



The rectangular boxes should be 2 rose and 2 green. But here there is only one green box and 3 rose boxes.



This net is correct to the given shape. Hence this option is correct.

This rose rectangular box has to come as a vertical element on top of the green vertical box. So this is incorrect

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06. Which is known as 'Garden City of India'?



A. Mysore

B. Bangalore

C. Coimbatore

D. Chandigarh

Answer key

B. Bangalore

Theory

Bangalore is often called the Garden City due to its Tree-Lined streets and pleasant weather. Bangalore which was once known for its green and fertile farmland and pastures is also now home to Information Technology.

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07. Which element of design is highlighted in the below image?



Source: Composition, Batch 2016, CAAD

A. Line

B. Plane

C. Texture

D. Colour

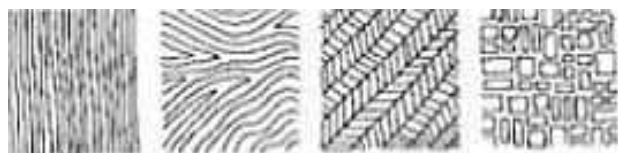
Answer key

C. Texture

Theory:

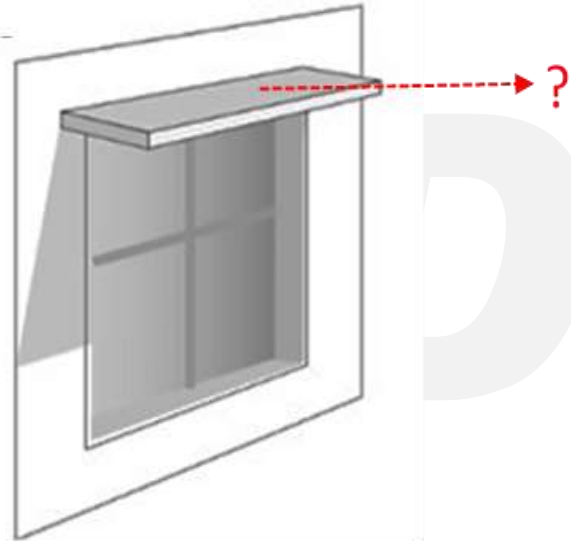
Texture

Texture refers to the surface quality. Textures can create a more three-dimensional appearance on a two-dimensional surface. It can be categorized as visual and tactile (sense of touch) texture.



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08. Why Chajjas/ Sunshades are provided over openings on external walls in a building?



A. To provide strength to the external wall

B. To transfer the load of the external wall to foundation

C. To provide protection from sun and rain

D. To give access to different rooms in the building

Answer key

C. To provide protection from sun and rain

Theory

Chajja or sunshade is a sloping or horizontal structure overhang provided at lintel level on the external walls of the building. Apart from reducing heat gain and preventing water ingress, the sunshade has also been a key feature in dictating the aesthetics of a building form.

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