

NATA 2021 CAAD BITESIZE

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26.06.2021 PCQ/MCQ/MSQ/NAQ

Prepared by
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ARCHITECTURE
EDUCATION**

**ANNA
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1152



BITESIZE
06

B.Arch., 9710 55 4545 / 9710 93 0025

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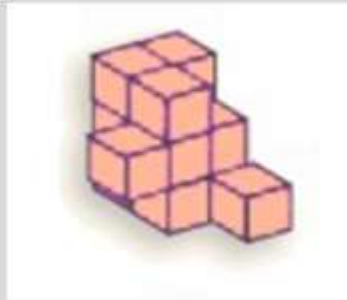
▪ **DIAGRAMMATIC REASONING / LOGICAL REASONING**

- NUMERICAL REASONING
- VERBAL REASONING / SITUATIONAL JUDGEMENT
- INDUCTIVE REASONING
- ABSTRACT REASONING
- ART MOVEMENT AND HISTORY
- VISUAL PERCEPTION
- BUILDING MATERIALS AND CONSTRUCTION

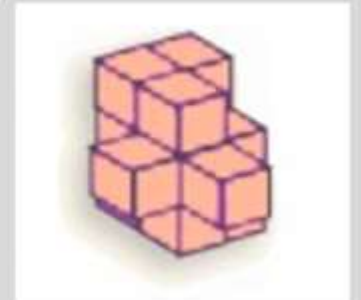
01. If you disassemble the block, which piece would be missing?



A.



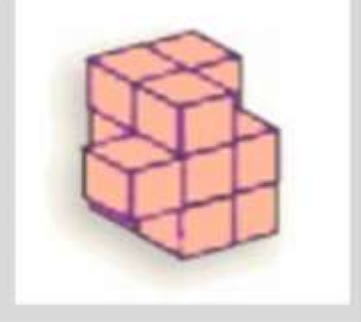
B.



C.



D.



Answer key

D.



Theory

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.

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02. The water in a rectangular reservoir having a base 80 metres by 60 metres is 6.5 metres deep. In what time can the water be emptied by a pipe whose cross section is a square of side 20 cm, if the water runs through the pipe at the rate of 15 km per hour?

A. 52 hrs

B. 26 hrs

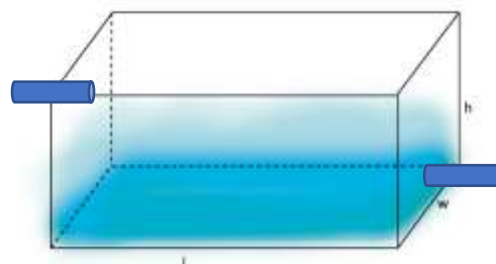
C. 45 hrs

D. 66 hrs

Theory

Cross section of pipe = 20cm

Volume = L x B x H



Length of reservoir = 80 m
Breadth of reservoir = 60 m
Depth of reservoir = 6.5 m

Volume of reservoir = length × breadth × height

Volume of reservoir = $80 \times 60 \times 6.5 = 31200 \text{m}^3$

Rate = 15Km per hour

So, Amount of water flowing in 1 hour = 15 km = 15000 m

So, Volume of water coming out of cross section in 1 hour
= $0.2 \times 0.2 \times 15000 = 600$

So, Time taken to empty tank = Volume of tank / Volume of water coming out of tank in an hour

Time taken to empty tank = $31200 / 600$
= 52

Hence it will take 52 hours to empty tank

Answer key

A. 52 Hrs

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03. Read the passage below and answer the questions that follow:

The ravages [of the storm] were terrible in America, Europe, and Asia. Towns were overthrown, forests uprooted, coasts devastated by the mountains of water which were precipitated on them, vessels cast on the shore, whole districts levelled by waterspouts, several thousand people crushed on land or drowned at sea; such were the traces of its _____, left by this devastating tempest.

-Ralph Waldo Emerson

Which word, if inserted in the blank, makes the most sense in the context of the passage?

A. velocity	B. fury
C. reward	D. benevolence

Answer key:

B. fury

Explanation:

The whole passage describes the degree of the damage that the storm created. "Reward" and "benevolence" are definitely not expressive of this, and hence they cannot fit the blank to explain the rage of the storm. Hence options C and D are eliminated. Between options A and B, "velocity" is a quantitative measure of the storm. But we are looking at the sorrowful damages it has caused. "Fury", which depicts "anger", is the most appropriate word that fits well in the blank in this context. Hence, the right answer choice is option B.

The question is "Which word, if inserted in the blank, makes the most sense in the context of the passage?" Hence, the answer is Fury .

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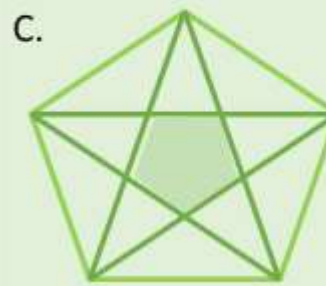
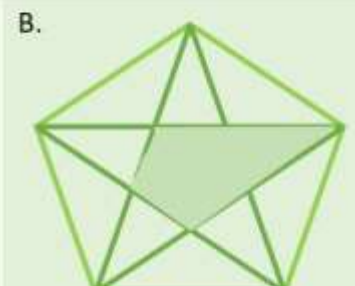
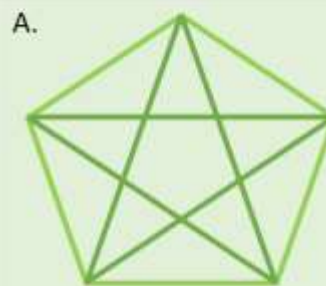
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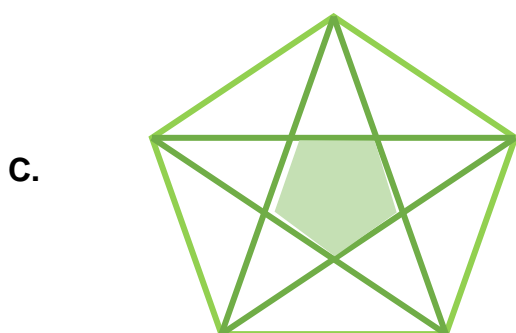
▪ VISUAL PERCEPTION

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04. Which is the next image in the given sequence



Answer key



Theory

There are two characteristics in this question - Lines and Shade. Sequence of shapes are based on connecting the vertices step by step and also by shading the space created by the lines.

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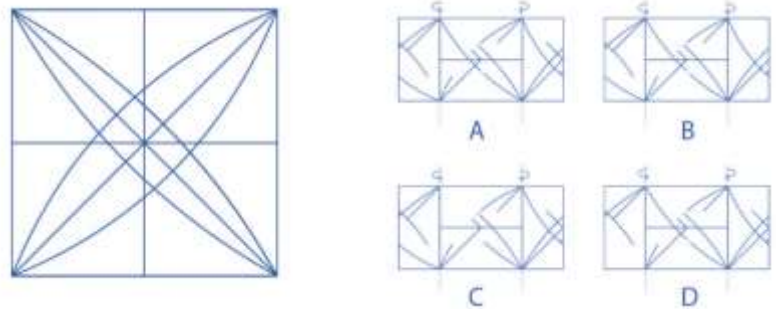
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05. Shown in the four figures A, B, C, and D on the right, are broken lines drawn on a transparent sheet. Each figure is folded over along the dotted lines as shown. Identify the correct option that will generate the motif shown on the left.



A. Option A

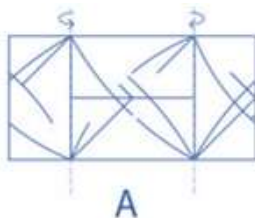
B. Option B

C. Option C

D. Option D

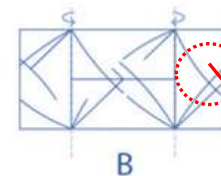
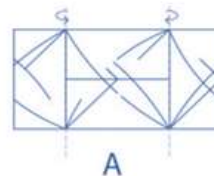
Answer key

A.



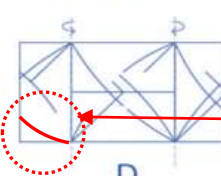
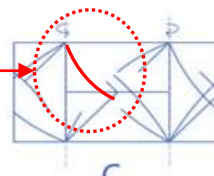
Theory

This option is correct.



This line is missing. So this is incorrect

This line is missing. So this is incorrect



This line is missing. So this is incorrect

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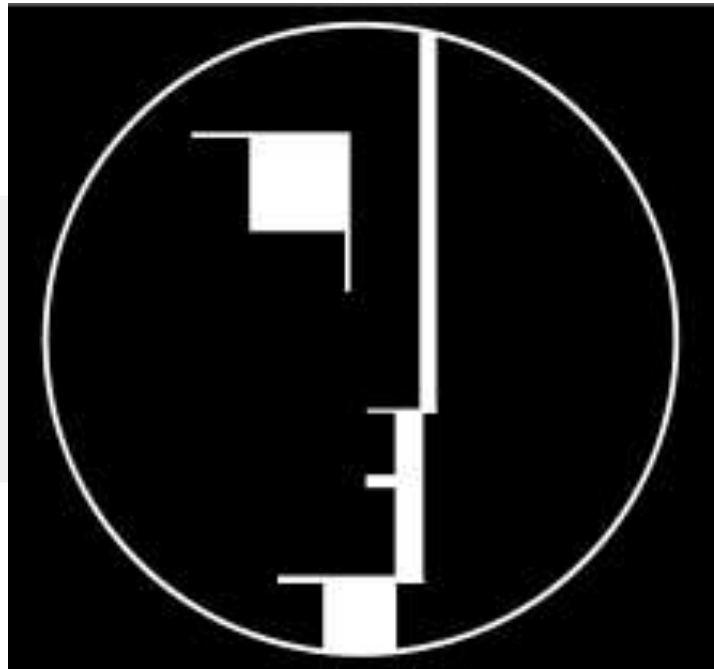


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06. Identify the Art movement behind the logo?



A. Bauhaus

B. Impressionism

C. Cubism

D. Fauvism

Answer key

A. Bauhaus

Theory

The Bauhaus was arguably the single most influential modernist art school of the 20th century. Its approach to teaching, and to the relationship between art, society, and technology, had a major impact both in Europe and in the United States. The stress on experiment and problem-solving which characterized the Bauhaus's approach to teaching has proved to be enormously influential on contemporary art education. It has led to the rethinking of the "fine arts" as the "visual arts", and to a reconceptualization of the artistic process as more akin to a research science than to a humanities subject such as literature or history.

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07. What type of colours are used to create the pattern in the blanket?



Source: quora.com



Source: flickr.com



Source: cambridgeplanet.wordpress.com



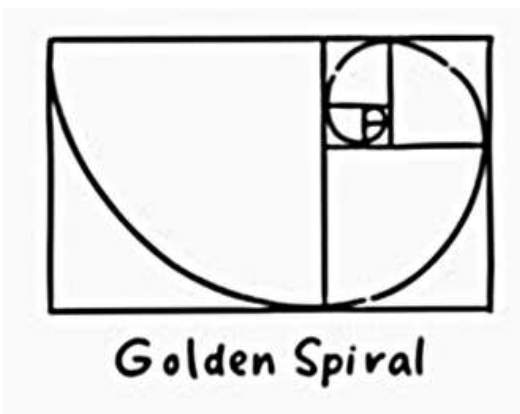
Source: originalbeauty.wordpress.com

A. Rule of thirds	B. Golden Spiral
C. Golden Triangle	D. Radial Composition

Answer key

B. Golden Spiral

Theory:



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08. Soil that feels coarse when dry but sticky when wet indicates the presence of large amount of _____ in soil.



Gravel



Sand



Silt



Clay

A. Gravel

B. Sand

C. Silt

D. Clay

Answer key

D. Clay

Theory

SOIL:

Soil = Gravel + Sand + Silt + Clay

Clay results from chemical weathering of rocks, mainly silicates. Clay can be rammed or compressed but in drying out they often shrink. During the monsoon they get damp, expand again and cracks are formed. The clay particle size is smaller than 0.002mm.

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