

# NATA 2021 CAAD BITESIZE

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Prepared by  
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EDUCATION**

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**BITESIZE  
05**



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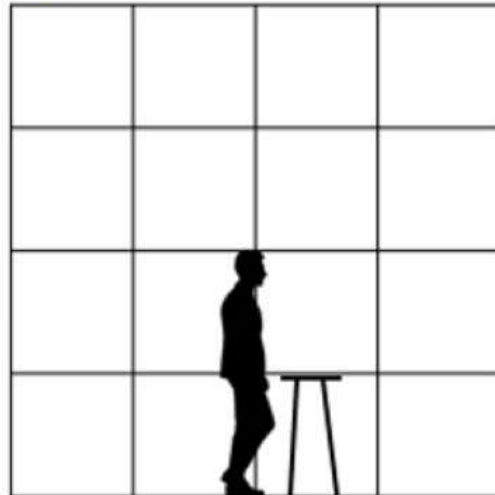
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- NUMERICAL REASONING
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- ABSTRACT REASONING
- ART MOVEMENT AND HISTORY
- VISUAL PERCEPTION
- BUILDING MATERIALS AND CONSTRUCTION

01. John wants to paint the ceiling of his house. The height of the ceiling is twice the height of Mr. John. He has a stool which is half his height. Find the ratio of height between the ceiling, John and stool. You can choose more than one option from the four given below



A. 2:1:1/2

B. 1:1:1/2

C. 4:2:1

D. 2:1:1

**Answer key**

**A & C**

**Theory**

*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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02. In an 800 m race around a stadium track having a perimeter of 200 m, the top runner meets the last runner on the 5th minute of the race. If the top runner runs at twice the speed of the last runner, what is the time taken by the top runner to finish the race?

At 5<sup>th</sup> minute



Circumference 200 m

A. 20 Min

B. 10 Min

C. 15 Min

D. 5 Min

Answer key

B. 10 Minutes

Theory

After 5 minutes (before meeting), the top runner covers 2 rounds i.e., 400 m

And the last runner covers 1 round i.e., 200 m.

Top runner covers 800 m race in 10 minutes.

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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

**What is the meaning of the word over throwing in the context of this passage?**

A. surrendered

B. devastated

C. capitulated

D. yielded

**Answer key:**

**B. devastated**

**Explanation:**

"Towns were" cannot be followed up with "surrendered", "capitulated" or "yielded". The passage talks about damages caused by the storm, and hence "were" should be deleted if any of those three options are used. That eliminates options A, C and D, leaving us with the right answer choice of B.

The question is "What is the meaning of the word over throwing in the context of this passage?"

Hence, the answer is devastated

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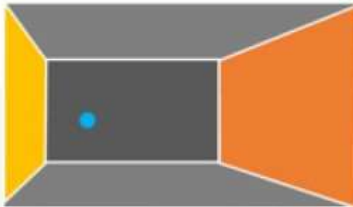
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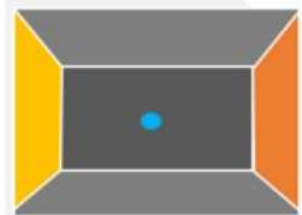
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04. How would the room appear to you when you view it by standing near the right side wall of the room?

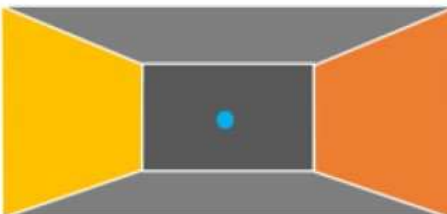
A.



B.

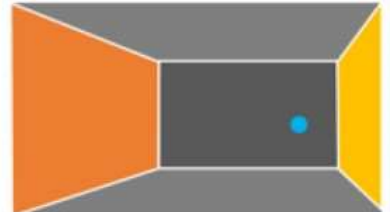


C.



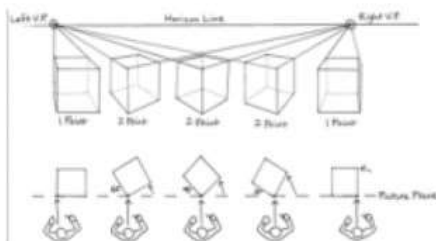
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D.



### Answer key

D.



### Theory

#### ONE POINT PERSPECTIVE

One point perspective ( frontal or central perspective) has only one vanishing point on the horizon line located somewhere within the picture plane and all the orthogonal converge towards it. When the interiors is viewed from the right side the left side wall be seen larger than the right side

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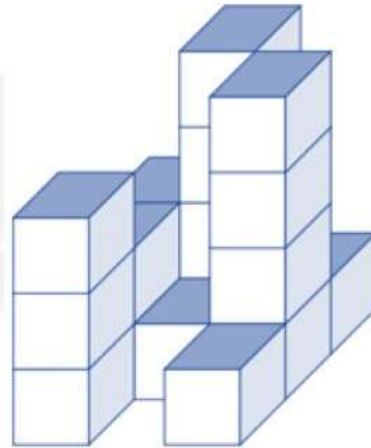
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05. How many cubes have to be added to this block to make it a solid cuboid?



A. 16

B. 17

C. 18

D. 19

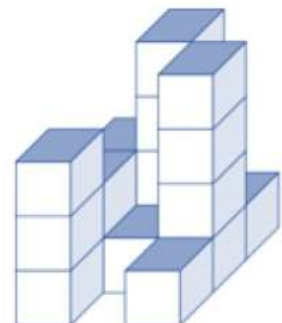
Answer key

C. 18

Theory

The base of the block is a 3X3 Square. To have 4 blocks vertically for each base square, the needed number of cubes are filled in the following table. Counting altogether we get the answer as 18

2	0	3
2	3	0
1	4	3





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06. Nam which dynasty was in power when the famous Brihadeshwara temple was built.



A. Pallava

B. Chola

C. Ashoka

D. Chera

Answer key

**B. Chola**

Theory

*Brihadishvara temple, also called Rajarajeswaram or Peruvudaiyār Kōvil, is a Hindu temple dedicated to Shiva located in South bank of Kaveri river in Thanjavur, Tamil Nadu, India. It is one of the largest South Indian temples and an exemplary example of a fully realized Tamil architecture. It is called as Dakshina Meru. Built by Tamil king Raja Raja Chola I between 1003 and 1010 AD, the temple is a part of the UNESCO World Heritage Site.*

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07. In which composition is 'linear organization' used as the organizing principle?

A.



B.



C.



D.



Answer key

D.



**Theory:**

**Linear organisation**

A linear organisation consists essentially of a series of spaces.

These spaces can either be directly related to one another or be linked through a separate and distinct linear space.

A linear organisation usually consists of repetitive spaces which are alike in size, form, and function.

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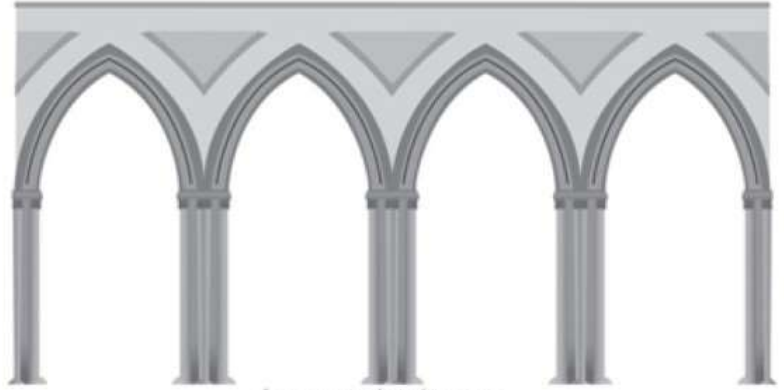
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08. Identify the type of Arch given below.



A. Horse shoe arch

B. Semicircular arch

C. Flat arch

D. Pointed arch

**Answer key**

**D. Pointed Arch**

**Theory**

*An arch with a pointed apex. Characteristic of Gothic architecture. Pointed arches transfer less stress on the structural elements and allowed for taller arches, thinner walls, and much more interior space.*

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