NATA 2021
CAAD BITESIZE

30.06.2021 PCQ/MCQ/MSQ/NAQ

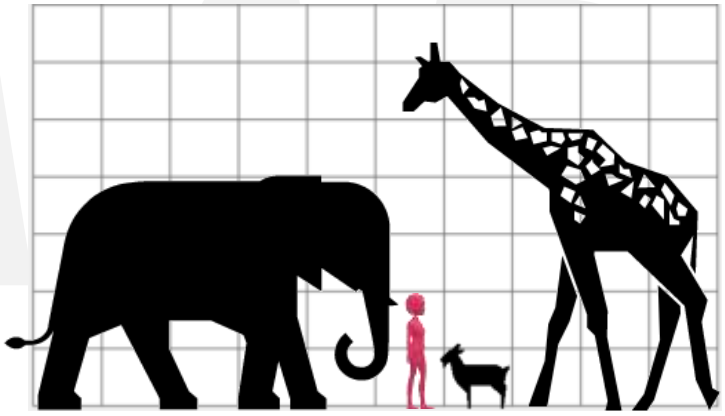
Prepared by
EXPERTS IN ARCHITECTURE EDUCATION

ANNA UNIVERSITY COUNSELLING CODE
1152

BITESIZE
10

- 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. Mona went to zoo as a part of school excursion. She was so excited to see all animals and was describing them to her mom back home. She narrated the animal's height by comparing them to her height. Based on the graphics, find the correct proportions as recited by her.



Source: www.theonlinetestcentre.com

A	Elephant -2.5 times of Mona Goat-Same height of Mona Giraffe-4 times of Mona	B	Elephant-3 times of Mona Goat-1/2 height of Mona Giraffe-2 times of Mona
C	Elephant -2 times of Mona Goat - 1/2 height of Mona Giraffe - 3 times of Mona	D	Elephant-4 times of Mona Goat-1/2 height of Mona Giraffe - 4 times of Mona

Answer key

Option C

- **Elephant – 2 times of Mona**
- **Goat –1/2 height of Mona**
- **Giraffe – 3 times of Mona**

Theory

Proportion

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.

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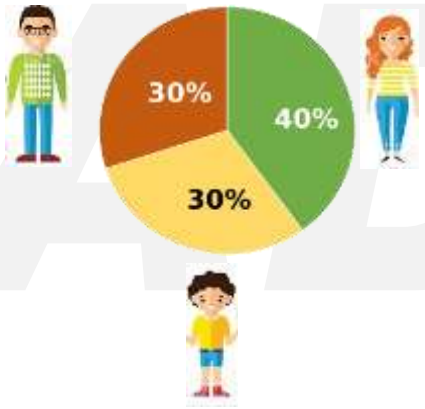
02. In a housing society, 30 per cent of the residents are men over the age of 18 and 40 per cent are women over the age of 18. If there are 24 children living in the housing society, then how many total residents live?



A. 32	**B. 80**
C. 94	**D. 112**

Answer key

B. 80

Theory

Residents as men of 18+ = 30%
Residents as women of 18+ = 40%
No. of children = 24
Let the total no. of residents be 'x'.
So, there are (100 - 30 - 40)% children in the house.
From the above,

$$0.30\,x = 24$$
$$x = 80 \text{ residents}$$

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03. For this question, you must identify the relationship that exists between each pair of words and determine which of the additional four word pairs maintains the same logical relationship.

Always pay attention to the **order** of the words in each pair. If more than one pair seems to apply, they may be in a different order than the original pair of words.

All Germans speak Italian.
All Italian speakers ride bicycles.
Which of the following statements must be true?

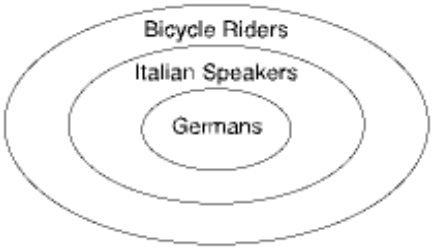
A. All Italians speak German.	**B. All bicycle riders are German.**
C. All Germans ride bicycles.	**D. Some of the Italians riding bicycles are Germans.**

Answer key:

C. All Germans ride bicycles

Explanation:

Based on the illustration, it's clear that all Germans are Italian speakers and that all Italian speakers are bicycle riders. Therefore, all Germans are bicycle riders.



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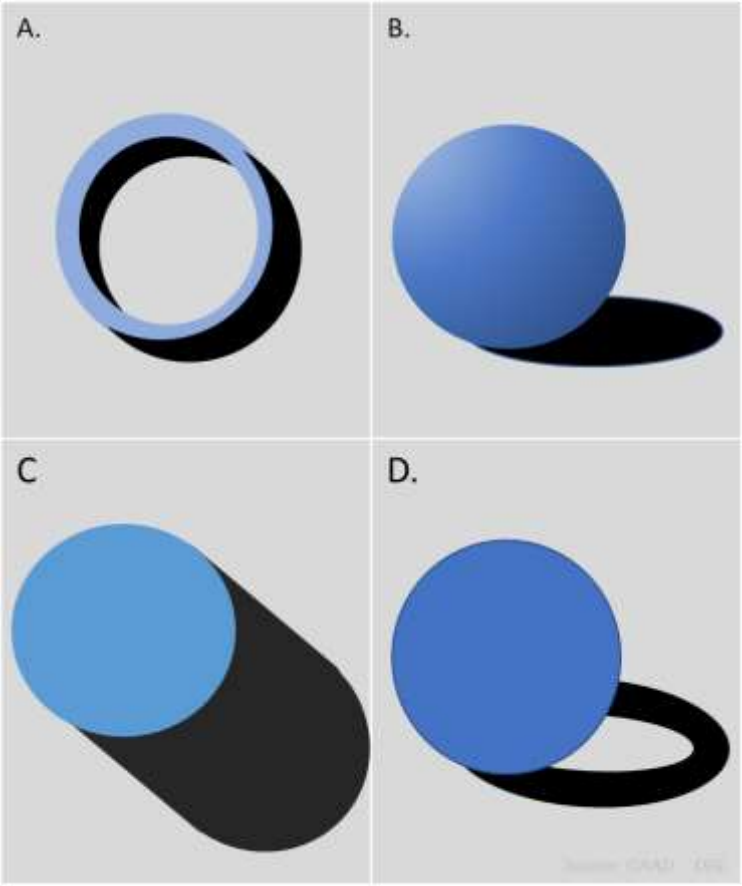
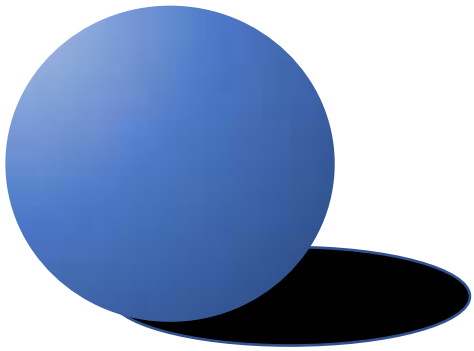
04. With the help of the shadow generated, identify the solid spherical object.



Answer key

B.



Theory

Solid objects generate solid shadows

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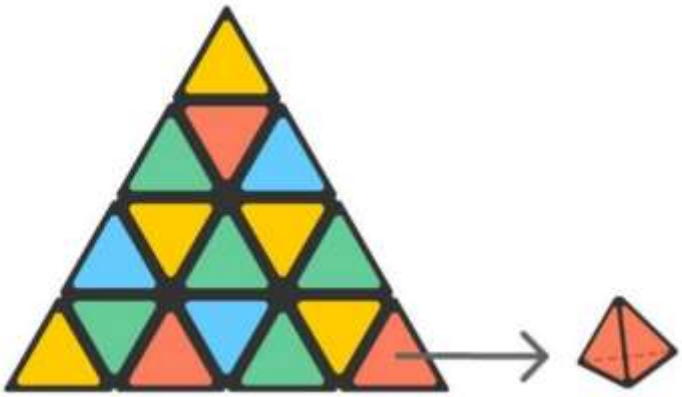
05. A tetrahedral puzzle is made of smaller tetrahedrons. Shown below is one side of the puzzle and a small tetrahedron. Assuming that all the faces of the puzzle are same, how many small tetrahedrons are there on the faces of the larger tetrahedron?



A. 64	**B. 54**
C. 48	**D. 44**

Answer key

D. 44

Theory

A tetrahedron has 3 sides and 1 base. On all the sides, same no. of tetrahedrons should be visible.
Total number on face 1 = ***16***
Total number on face 2 = 16 - 4 = ***12***
(the deduction is because they are already counted for the face 1)
Total number on face 3 = 16 - (1+2+2+2) = ***9***
(the deduction is because they are already counted for the face 1 and 2)
Total number on base = 16 - (3+6) = ***7***
(The deduction is because they are already counted for faces 1,2 and 3)
So, ***Total no. of Tetrahedrons = 16 + 12 + 9 + 7 = 44***

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06. Which architect designed the City of Chandigarh?

A. B.V.Doshi	**B. Raj Rewal**
C. Norman Foster	**D. Le Corbusier**

Answer key

D. Le Corbusier

Theory

Chandigarh, the dream city of India's first Prime Minister, Sh.Jawahar Lal Nehru, was planned by the famous French architect Le Corbusier. Picturesquely located at the foothills of Shivaliks, it is known as one of the best experiments in urban planning and modern architecture in the twentieth century in India.

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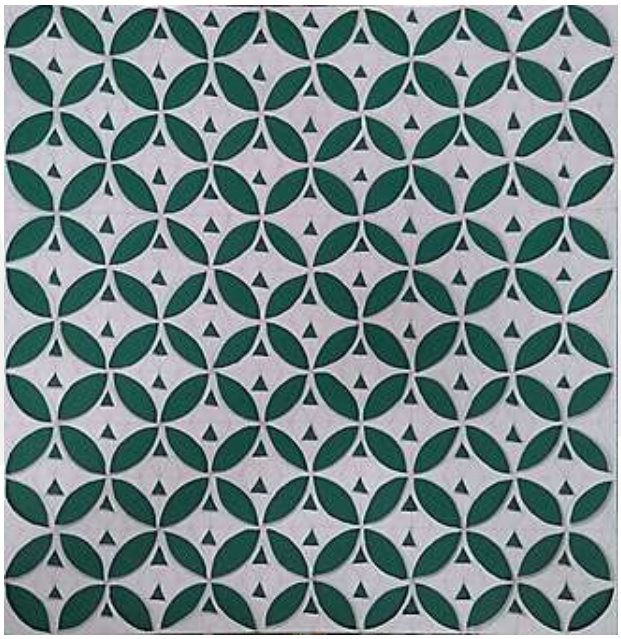
07. Name the predominant principle used in the following composition.

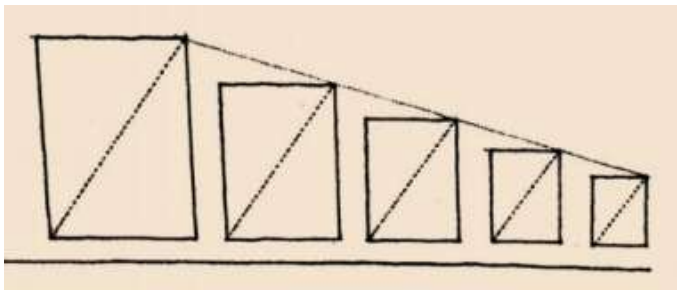


A. Hierarchy	**B. Datum**
C. Repetition	**D. Emphasis**

Answer key

C. Repetition

Theory:
REPETITION
Repetition refers to one object or shape repeated



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08. _____Windows project outside the external wall of a room.

A. Clerestory	**B. Lantern**
C. Skylight	**D. Bay**

Answer key

D. Bay

Theory

BAY WINDOW:

A window space projecting outward from the main walls of a building and forming a bay in a room. These Windows admit more light, increase opening area, provide ventilation and improve the appearance of the building.