

▪ **DIAGRAMMATIC REASONING / LOGICAL REASONING**

▪ **NUMERICAL REASONING**

▪ **VERBAL REASONING / SITUATIONAL JUDGEMENT**

▪ **INDUCTIVE REASONING**

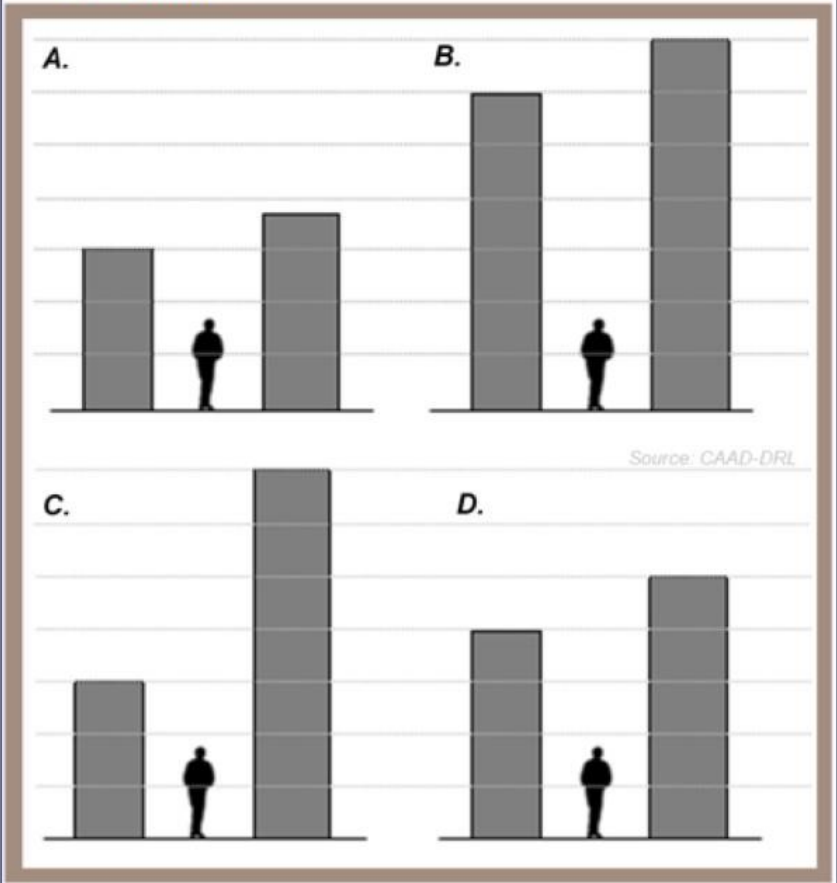
▪ **ABSTRACT REASONING**

▪ **ART MOVEMENT AND HISTORY**

▪ **VISUAL PERCEPTION**

▪ **BUILDING MATERIALS AND CONSTRUCTION**

01. If a person walks through a narrow street – identify which scale of the building relates more to human scale and creates a sense of relaxation.



**Answer key**

A.

**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. 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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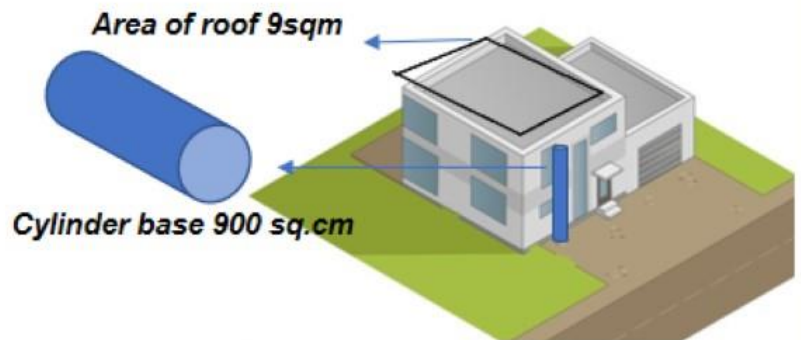
02. The water from a roof 9 sq. metres flows into a cylindrical container of 900 cm<sup>2</sup> base. To what height will the water rise in the cylinder if there is a rainfall of 0.1 mm?

A. 1CM

B. 0.1M

C. 0.11CM

D. 10CM



Answer key

B. 1CM

Theory

Let height will be (h) cm.

Volume of water in roof = Volume of water in cylinder

Volume of 1cubic meter is 1000L

So,

$$\Rightarrow (9 \times 10000 \times 0.1) / (900 \times 10) = h$$

$$\therefore h = 1 \text{ cm}$$



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

Most people who bother with the matter at all would admit that the English language is in a bad way, but it is generally assumed that we cannot by conscious action do anything about it. Our civilization is decadent and our language-so the argument runs-must inevitably share in the general collapse. It follows that any struggle against the abuse of language is a sentimental archaism, like preferring candles to electric light or hansom cabs to aeroplanes. Underneath this lies the half-conscious belief that language is natural growth and not an instrument which we shape for our own purposes.

Now it is clear that the decline of a language must ultimately have political and economic causes; it is not due simply to the bad influence of this or that individual writer. Modern English, especially written English, is full of bad habits which spread by imitation and which can be avoided if one is willing to take the necessary trouble. If one gets rid of these habits, one can think more clearly, and to think clearly is a necessary first step towards political regeneration: so that the fight against bad English is not frivolous and is not the exclusive concern of professional writers.

3a). Many people believe that nothing can be done about the English language because –

- A. Bad habits spread by imitation
- B. We live in a decadent civilization
- C. There are too many bad writers
- D. People are too lazy to change their bad habits

3b) What causes decline of a language?

- A. The bad influence of individual writers
- B. The imitation of bad language habits
- C. Political and economic causes.
- D. An assumption that nothing can be done about

3c) The author believes that the first stage towards the political regeneration of the language would be –

- A. (a) Taking the necessary trouble to avoid bad habits
- B. (b) Avoiding being frivolous about it
- C. (c) Clear thinking
- D. (d) For professional writers to help

Answer key:

3a) Option B.

3b) Option C

3c) Option C

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04. Find out the missing image in the following questions .

**A.**


1 2 3 4 5

**B.**


1 2 3 4 5

**C.**


1 2 3 4 5

Source: CAAD-DRL

Answer key

A - Option 4  
B - Option 5  
C - Option 4

Theory

**Missing Square -** With this type of question a grid of either four or nine squares to the left of a vertical line will be given. All but one of these squares contain symbols or shapes. To the right of the vertical line are five boxes labelled '1' to '5' containing symbols which are the possible answers. You are required to determine which of the boxes to the right would best complete the grid of squares on the left.

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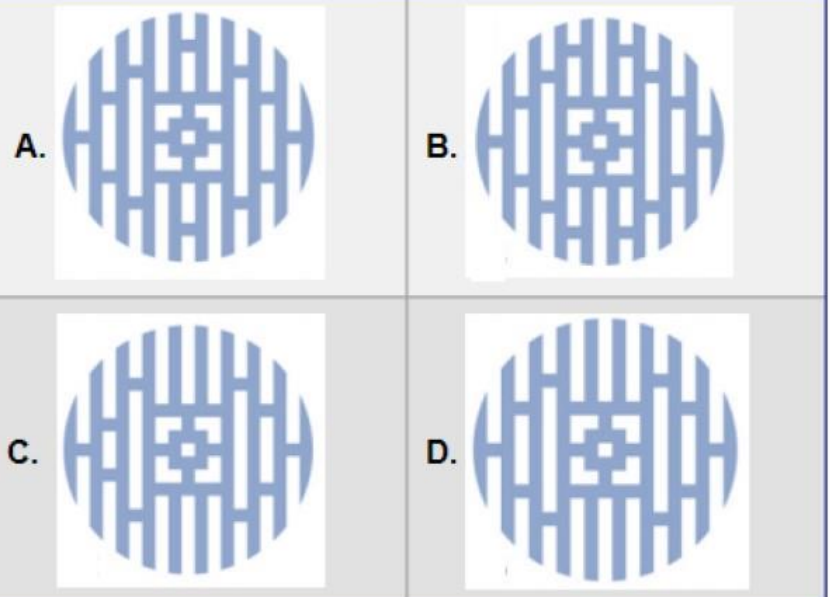
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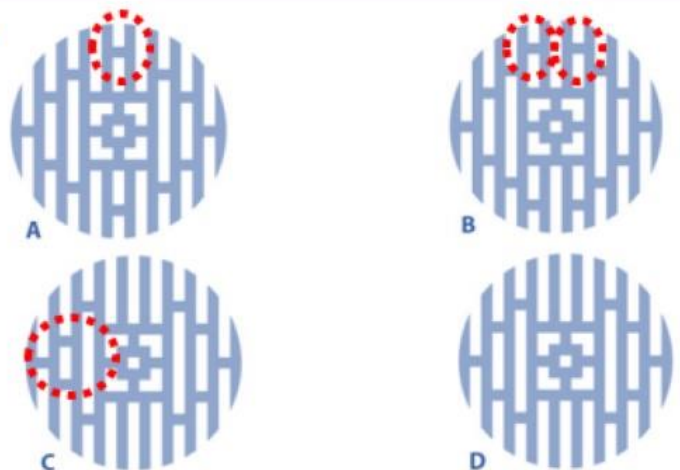
05. The quadrant shown below is mirrored first on x-axis and then on y-axis. Find the correct complete figure from the given options.



Answer key



Theory



The lines inside the red circles are not correct. So Option D is correct

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06. Identify this historical monument?



A. Hawa Mahal

B. Red fort

C. Humayun's tomb

D. Agra fort

Answer key

B. Red fort

Theory

*The Red Fort is a historic fort in the city of Delhi in India that served as the main residence of the Mughal Emperors. Emperor Shah Jahan commissioned construction of the Red Fort on 12 May 1638, when he decided to shift his capital from Agra to Delhi. Originally red and white, its painting is credited to architect Ustad Ahmad Lahori, who also constructed the Taj Mahal.*

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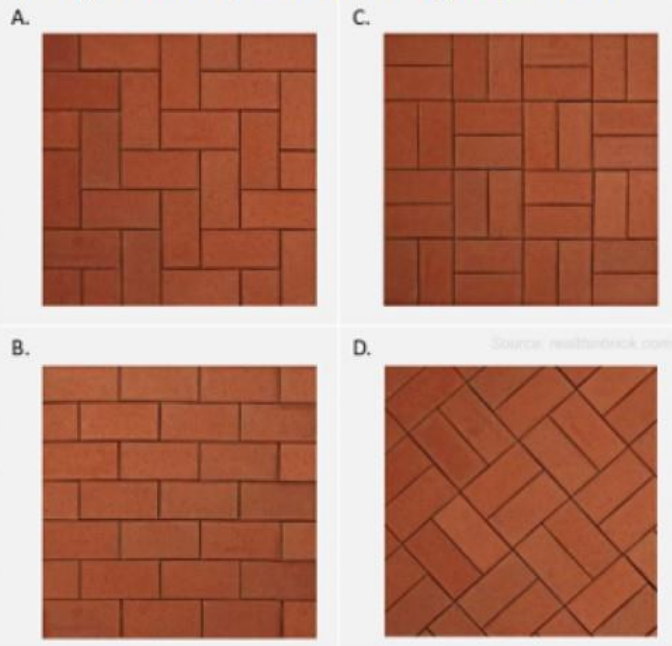
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07. In the following images, which brick arrangement represents the grid pattern?



A. Options C & B

B. Options C

C. Options D

D. Options C & D

Answer key

A. Options C & B

**Theory:**

**GRID ORGANIZATION**

- Space organized within the field of a structural grid or another 3 dimensional framework.
- A grid is established in architecture most often by a skeletal structural system of columns and beams.
- Within the field of this grid, spaces can occur as isolated events or as repetitions of the grid module.

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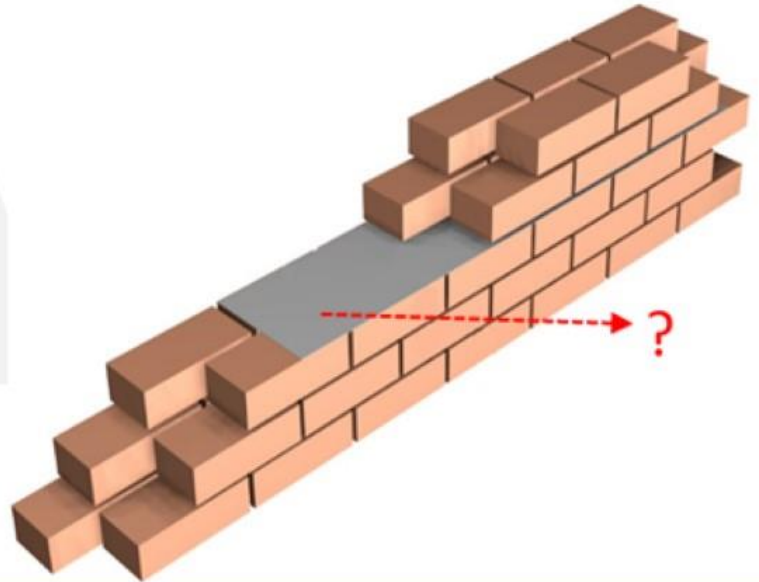
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08. \_\_\_\_\_ treatment is given to the foundations, walls and roofs of a building to prevent moisture penetration through these surfaces.



A. Fire proofing

B. Damp proofing

C. Termite proofing

D. Sound proofing

#### Answer key

**B. Damp proofing**

#### Theory

*Damp proofing is a general term that covers methods and treatments used to prevent dampness from being absorbed through floors, walls or roofs into the interior of a building.*

*Materials widely used for damp proofing include: Flexible materials like butyl rubber, hot bitumen (asphalt), plastic sheets, bituminous felts, sheets of lead, copper, etc. Semi-rigid materials like mastic asphalt.*

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