

VISUAL REASONING

LOGICAL DERIVATION

NUMERICAL ABILITY

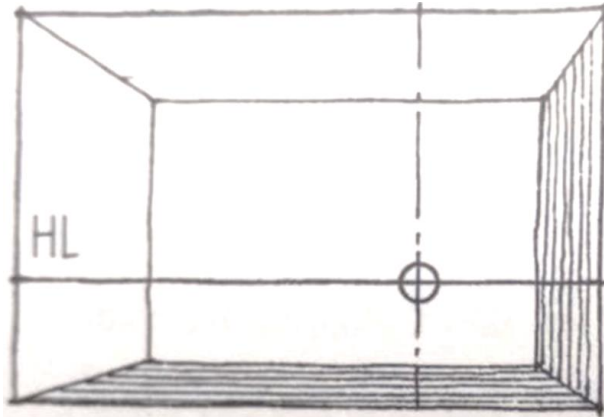
GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN

DESIGN THINKING

LANGUAGE INTERPRETATION

DESIGN SENSITIVITY

From whose location the given perspective is drawn?

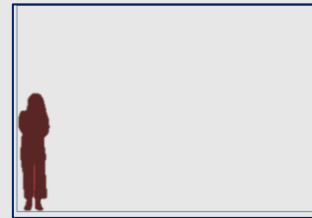


Source: CAAD- DRL

A.



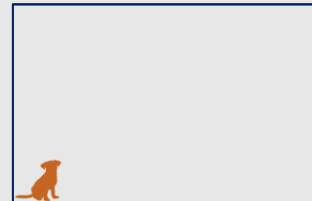
C.



B.



D.



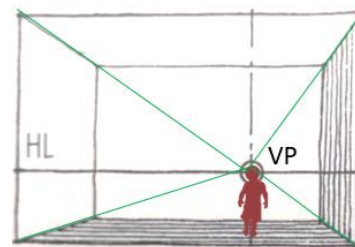
Answer key:

A.



Theory:

The position of others are at the left side and the HL is higher than the one given



HL- Horizon line
VP- Vanishing point

Suggested Reading: Basics of One point Perspective

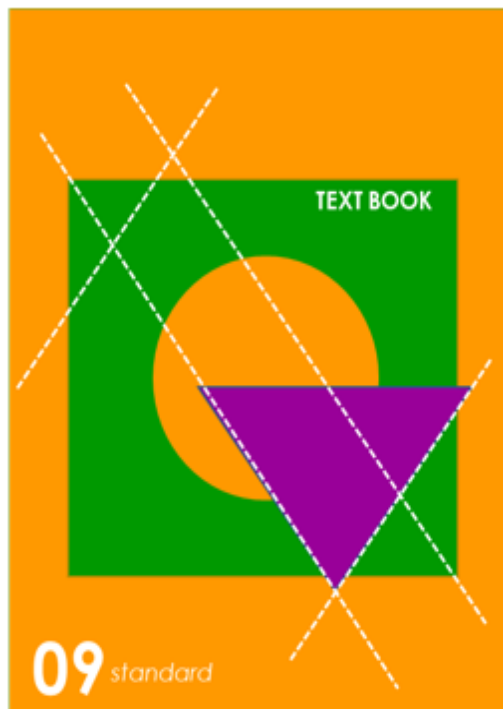
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What are the colours that are used to create the Mathematics text book cover given below?



Source: CAAD-DRL

A. Primary Colours

B. Secondary Colours

C. Shades of Yellow

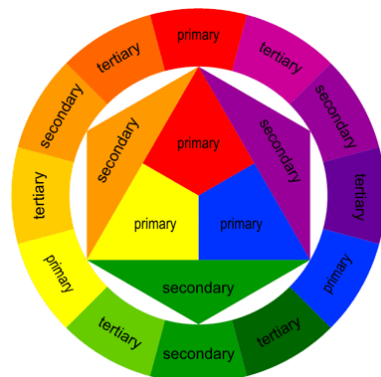
D. Warm Colours

Answer key:

Theory:

B. Secondary Colours

Secondary colours
These are the colours formed by mixing the primary colours.



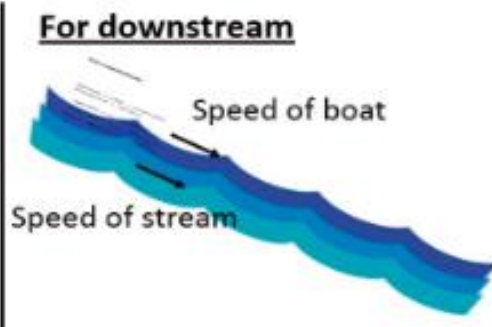
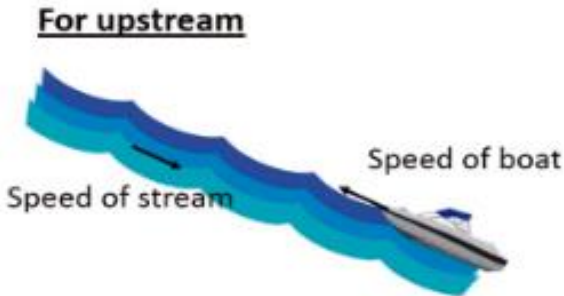
Suggested Reading: colour theory

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A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 km of downstream in 6 hours and 30 minutes. The speed of the boat in still water is :



A. 14 Km/h

B. 4 Km/h

C. 10 Km/h

D. 6 Km/h

Answer key:

C. 10 km/h

Theory:

If speed of the boat be x and stream speed be y

$$24/(x-y) + 28/(x+y) = 6$$

$$30/(x-y) + 21/(x+y) = 6.5$$

Taking $1/(x-y)$ as X and $1/(x+y)$ as Y

$$24X + 28Y = 6$$

$$30X + 21Y = 6.5$$

Solving for X and $Y \Rightarrow$

$$X = 1/6 \text{ and } Y = 1/14$$

$$\text{so, } x-y = 6$$

$$x+y = 14$$

hence $x = 10 \text{ kmph}$ and $y = 4 \text{ kmph}$

Speed of boat is 10 kmph

Speed of stream is 4 kmph

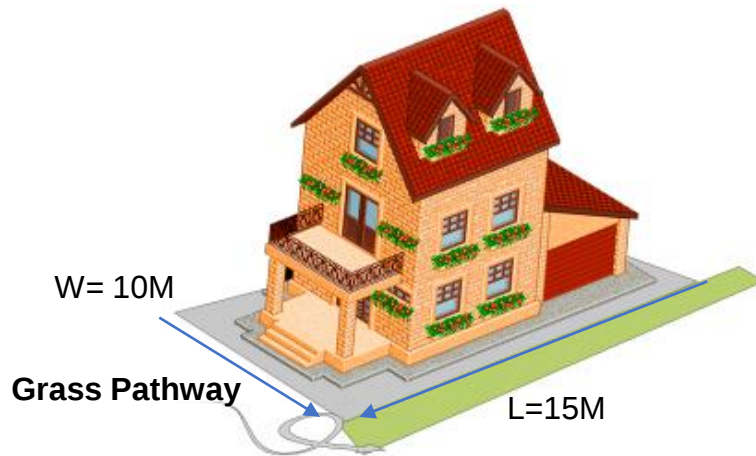
Suggested Reading: Problems related to speed

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A rectangular plot $15\text{m} \times 10\text{m}$, has a path of grass outside it. If the area of grassy pathway is 54 m^2 , find the width of the path.



A. 4M

B. 3M

C. 2M

D. 1M

Answer key:

D. 1M

Theory:

Let the width of the path $= W\text{ m}$
 then, length of plot with path $= (15 + 2W)\text{m}$
 and breadth of plot with path $= (10 + 2W)\text{ m}$
 Therefore, Area of rectangular plot (without path)
 $= 15 \times 10 = 150\text{ m}^2$
 Area of rectangular plot (with path) $= 150 + 54 = 204\text{ m}^2$
 Hence, $(15 + 2W) \times (10 + 2W) = 204$
 $\Rightarrow 4W^2 + 50W - 54 = 0$
 $\Rightarrow 2W^2 + 25W - 27 = 0$
 $\Rightarrow (W - 1)(2W + 27) = 0$
 Thus $W = 1$ or $-27/2$
 Width of the path $= 1\text{ m}$

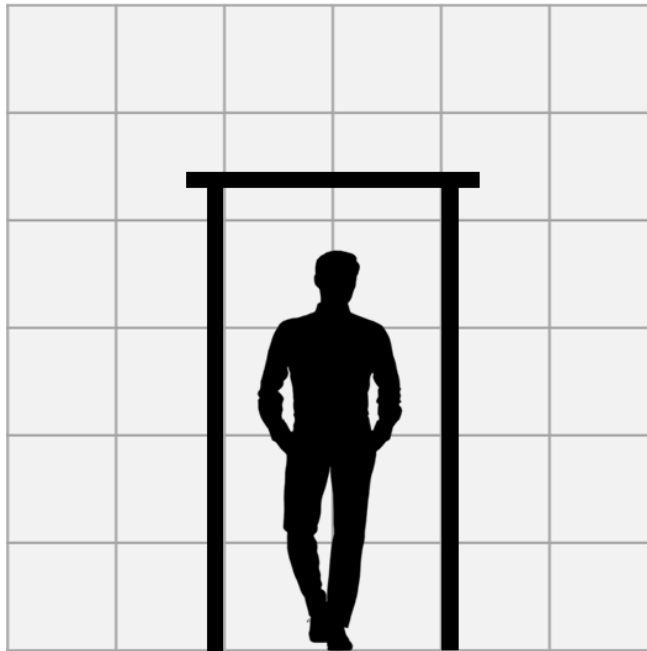
Suggested Reading: Mensuration

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The height of door opening in residential buildings should not be less than _____.



A. 0.5 m

B. 1.1m

C. 2.1m

D. 4.1m

Answer key:

Theory:

LINTEL HEIGHT:

A lintel is a horizontal beam that spans across the openings like doors, windows etc. in buildings to support the load from the structure above. The height between the floor level and lintel level is known as lintel height. As per the building regulations and guidelines, for residential building the standard height of lintel should be 7feet (2.1m) is adopted.

C. 2.1m

Suggested Reading: Basics of building construction/Components

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This iconic Mughal monument boasts intricate white marble inlay work and perfectly symmetrical gardens.



Source: Government of Uttar Pradesh (India)

A. Taj Mahal

C. Jama Masjid

B. Agra Fort

D. Red Fort

Answer key:

Theory:

Explanation: The Taj Mahal is easily identifiable by its white marble exterior, intricate pietra dura inlay work, and symmetrical layout of gardens and reflecting pools. The other options, while also impressive Mughal structures, lack the defining characteristics of the Taj Mahal.

A. Taj Mahal

Suggested Reading: History Of Architecture

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How does design thinking promote innovation in architecture?

A. By following traditional design principles.

B. By relying solely on individual creativity.

C. By encouraging collaboration and exploration of ideas.

D. By limiting experimentation and iteration.

Answer key:

C. By encouraging collaboration and exploration of ideas

Theory:

By encouraging collaboration and exploration of ideas"Design thinking promotes innovation in architecture by fostering collaboration, exploration of ideas, and experimentation.

Suggested Reading: Design Thinking

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A part of the sentence given is *italicised and underlined*. Below are given alternatives to the italicised part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer.

He died *in the year 1960 at 11pm on 14 July.*

A. on 14 July in the year 1960 at 11pm

C. at 11pm on 14 July in the year 1960

B. in the year 1960 on 14 July at 11pm

D. No improvement

Answer key:

Theory:

The time should be written before the date, month and year in the same order.

C. at 11pm on 14 July in the year 1960

Suggested Reading: Writing Dates and Times

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Select the lettered pair that has the same relationship as the original pair of words.

Brook : River

A. Pen : Paper

C. Path : Highway

B. Yard : Alley

D. Vein : Artery

Answer key:

Theory:

Second is a bigger form of the first.

C. Path : Highway

Suggested Reading: Analogy in Verbal Reasoning

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Which of the following alphabets matches with the following font?

F O R M

A.



C.



B.



D.



Answer key:

Theory:

LTC Broadway Regular: Broadway is a font designed by Morris Fuller Benton in 1925. The thick left half of the letters weighed out by the thin right half make the letterforms abstract and ornamental. The angles present in this font echo the Art Deco movement.

A.



A B C D

Suggested Reading: Typography

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