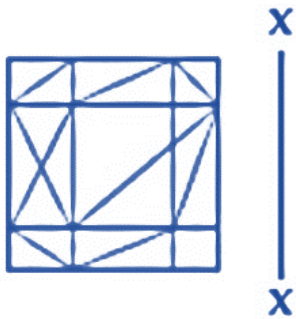
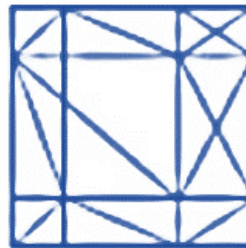


VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Which one of the following is the correct mirror image of the given figure?



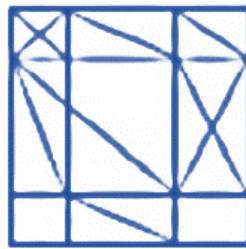
?



A



B



C



D

A. Option A

B. Option B

C. Option C

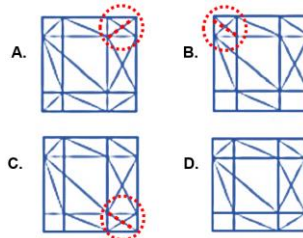
D. Option D

Answer key:

Theory:

The lines inside the red circles are incorrect. So Option D is correct

D.



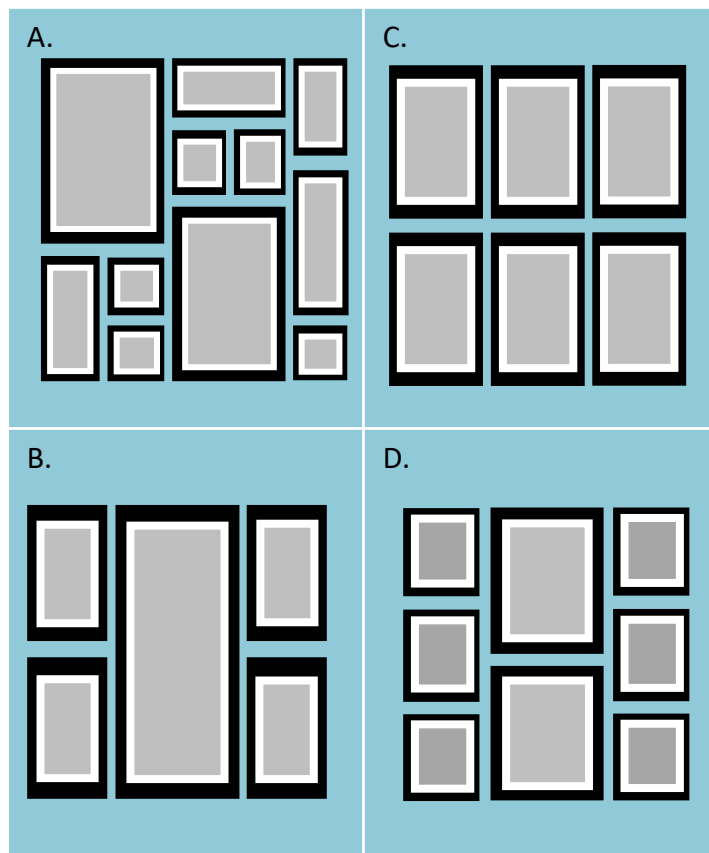
*Suggested Reading: Basics of Orthographic projections*

*" For a swift review of the subject, kindly consult the study materials available on the website"*

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

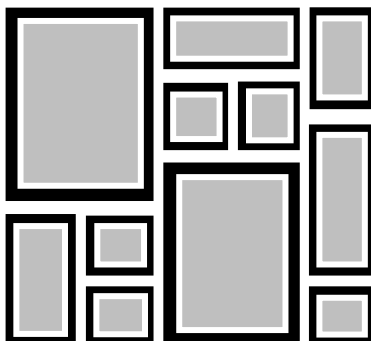
From the following options, identify the clustered organization of photo frames that are to be mounted on a wall.



Source: CAAD-DRL

Answer key:

A.



Theory:

**Clustered organization**

A clustered organization grouped by proximity or the sharing of a common visual trait or relationship.

A clustered organisation can also accept within its composition spaces that are dissimilar in size, form, and function, but related to one another by proximity or a visual ordering device such as symmetry or an axis.

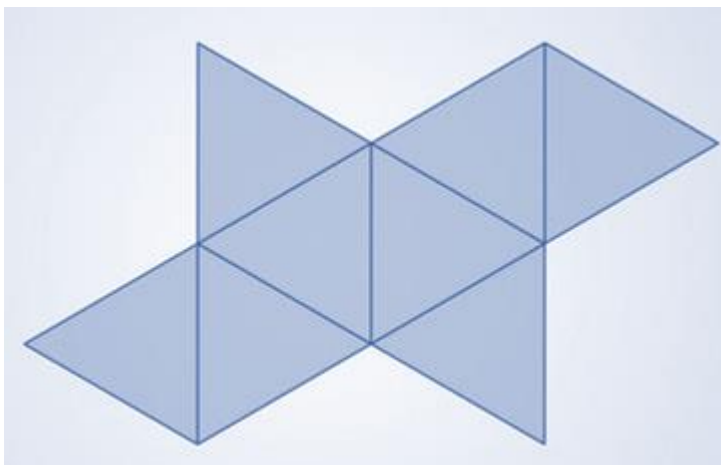
*Suggested Reading: organising principles*

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Identify the solid whose net is given below



A. Tetrahedron

B. Octahedron

C. Dodecahedron

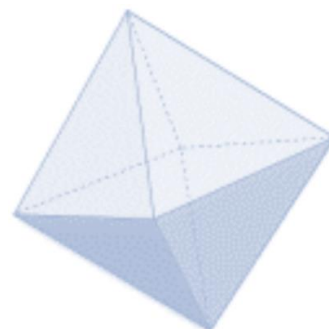
D. Icosahedron

Answer key:

Theory:

**OCTAHEDRON** is a platonic solid with 8 triangular faces

**B. Octahedron**



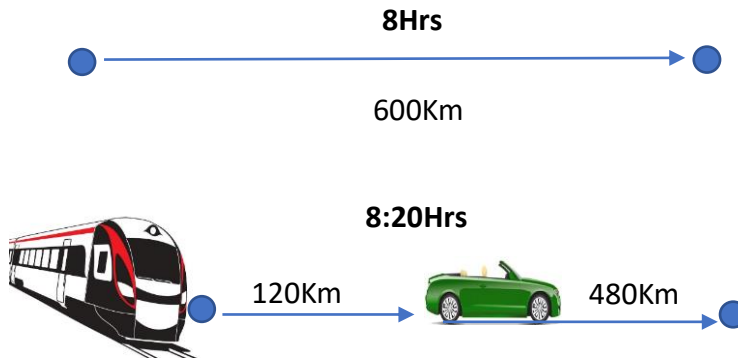
*Suggested Reading: Platonic solids and their nets*

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GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the speed of the car is :



A. 4:3

B. 3:4

C. 3:2

D. 2:3

**Answer key:**

**B. 3:4**

**Theory:**

If 80 km car journey is replaced by train journey, it will take 20 minutes more.

Therefore if 480 km car journey is replaced by train journey, it will take  $(6 \times 20) = 120$  minutes = 2 hr more.

This means, if whole journey is done in train, it will take  $(8+2) = 10$  hr.

That is, **speed of train =  $600/10 = 60$  km/hr**

Since train needs only  $120/60 = 2$  hr to cover 120 km,

car covers rest 480 km in  $8 - 2 = 6$  hr and

hence **speed of car =  $480/6 = 80$  km/hr**

Required ratio =  $60:80 = 3:4$

*Suggested Reading: Speed*

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<b>GENERAL KNOWLEDGE, ARCHITECTURE &amp; DESIGN</b>		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

The science which deals with the sound insulation in a building is known as \_\_\_\_\_

A. Reverberation

B. Transmission

C. Acoustics

D. Air borne

Answer key:

Theory:

C. Acoustics

The terms sound insulation all soundproofing is used to indicate the reduction in the level of sound when it passes through a building component. Acoustics becomes very essential in some buildings like cinema hall, Auditorium, Opera House, etc.

*Suggested Reading: Basics of building construction/Components*

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<b>GENERAL KNOWLEDGE, ARCHITECTURE &amp; DESIGN</b>		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

The Taj Mahal, a UNESCO World Heritage Site, is an example of which architectural style?



Source: Government of Uttar Pradesh, India

A. Mughal

C. Rajput

B. Gothic

D. Indo-Saracenic

Answer key:

Theory:

- Explanation: The Taj Mahal's white marble, intricate inlay work, and distinctive bulbous domes are characteristic of Mughal architecture, blending Persian and Islamic influences.
- Distractors: Rajput buildings often utilize sandstone and feature intricate carvings, while Gothic and Indo-Saracenic styles are less prominent in the Taj Mahal's design.

A. Mughal

*Suggested Reading: History Of Architecture*

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DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

What is the primary characteristic of lateral thinking?

A. Linear thought progression

B. Creativity

C. Following established norms .

D. Limited exploration of ideas

Answer key:

**B. Creativity**

Theory:

*Lateral thinking is characterized by creativity and the exploration of unconventional ideas and perspectives to solve problems. Unlike linear thinking, which follows a sequential pattern, lateral thinking encourages thinking outside the box and considering multiple angles to a problem.*

**Suggested Reading: Design Thinking**

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VISUAL REASONING	LOGICAL DERIVATION	NUMERICAL ABILITY
GENERAL KNOWLEDGE, ARCHITECTURE & DESIGN		
DESIGN THINKING	LANGUAGE INTERPRETATION	DESIGN SENSITIVITY

Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'D'. (Ignore the errors of punctuation, if any).

- A. Most of the members at the meeting felt
- B. that the group appointed for investigating the case
- C. were not competent to do the job efficiently.
- D. No error.

A. A	C. C
B. B	D. D

Answer key:

C. C

Theory:

**C:** As group is referred to as a single entity in the sentence, the correct answer as per subject-verb agreement would be - was not competent to do the job efficiently

We usually treat collective nouns as a singular unit and use the singular verb. But if the emphasis is on the individuals in the group, the plural verb form is best. When the group is considered as a unit, the singular verb is used; when it is thought of as a collection of individuals, the plural verb is used.

*Suggested Reading: Grammar*

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DESIGN THINKING	<b>LANGUAGE INTERPRETATION</b>	DESIGN SENSITIVITY

**Read the passage and answer the question:**

Most people who bother with the matter at all would admit that the English language is in a bad way, but it is One New York publisher has estimated that 50,000 to 60,000 people in the United States want an anthology that includes the complete works of William Shakespeare. And what accounts for this renewed interest in Shakespeare ? As scholars point out, the psychological insights he portrays in both male and female characters are amazing even today.

**This paragraph best supports the statement that:**

- A. Shakespeare’s characters are more interesting than fictional characters today
- B. People today are interested in Shakespeare’s work because of the characters.
- C. Academic scholars are putting together an anthology of Shakespeare’s work.
- D. New Yorkers have a renewed interest in the work of Shakespeare.
- E. Shakespeare was a psychiatrist as well as a playwright.

**Answer key:**

**B . People today are interested in Shakespeare’s work because of the characters.**

**Theory:**

*We can use elimination in this question. Option A makes a comparison, which has not been shown in the passage so its wrong. Option C is also wrong, as there is no mention of the anthology being put together yet. Option D is wrong due to the fact that the set of people can belong to anywhere from the United States, and not specifically NY. Option E makes no sense, so the correct option is B. People are interested in his characters, because of the way Shakespeare portrays them in his plays.*

*Suggested Reading: Passages and Interpretations*

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Which option is correct for all the signs given below (from left to right)?



- A. No Entry; Stop; Height limit; Keep left and straight; Prohibited road
- B. Give a way; No entry; Height limit; No overtaking; No stopping
- C. Give a way; No entry; Keep Distance; No overtaking; Prohibited road
- D. No entry; Give a way; Width limit; Keep left and straight; No stopping

Answer key:

**B. Give a way; No entry; Height limit; No overtaking; No stopping**

Theory:

**Option B :**

The left edge of the strap has to move past the staple so that the staple fix to the door can fit into the strap slot. This is possible only in option B. Hence Latch B is the correct option.

*Suggested Reading: Principles of design*

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