

TATA CONSULTANCY SERVICES

# REASONING ABILITY

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# PROPOSITIONAL REASONING



Propositional Reasoning is the ability to draw a conclusion on the basis of evidence connected



# EXAMPLE 1

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John and Nick are brothers and the following are men about them. All are

- John is the youngest
- Nick is the oldest
- Nick is the oldest

All are the siblings of a mother and the youngest

JKN

KNJ

JKN

NJK

# SOLUTION

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Oldest

Youngest



The answer is KJN

# EXAMPLE 2

- The  $\exists x (x \neq 0 \wedge \forall y (xy = 0))$  is true in  $\mathcal{M}$
- The  $\exists x (x \neq 0 \wedge \forall y (xy = 0))$  is true in  $\mathcal{M}$
- The  $\exists x (x \neq 0 \wedge \forall y (xy = 0))$  is true in  $\mathcal{M}$

How many of the  $\exists x (x \neq 0 \wedge \forall y (xy = 0))$

□ □ □

□ □ □

□ □ □

□ □ All  $x \neq 0$   $\forall y (xy = 0)$

# SOLUTION

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There is exactly 1 false statement in this list  
There are exactly 2 false statements in this list  
There are exactly 3 false statements in this list

T	F	F
F	T	F
F	F	T

The answer is 2



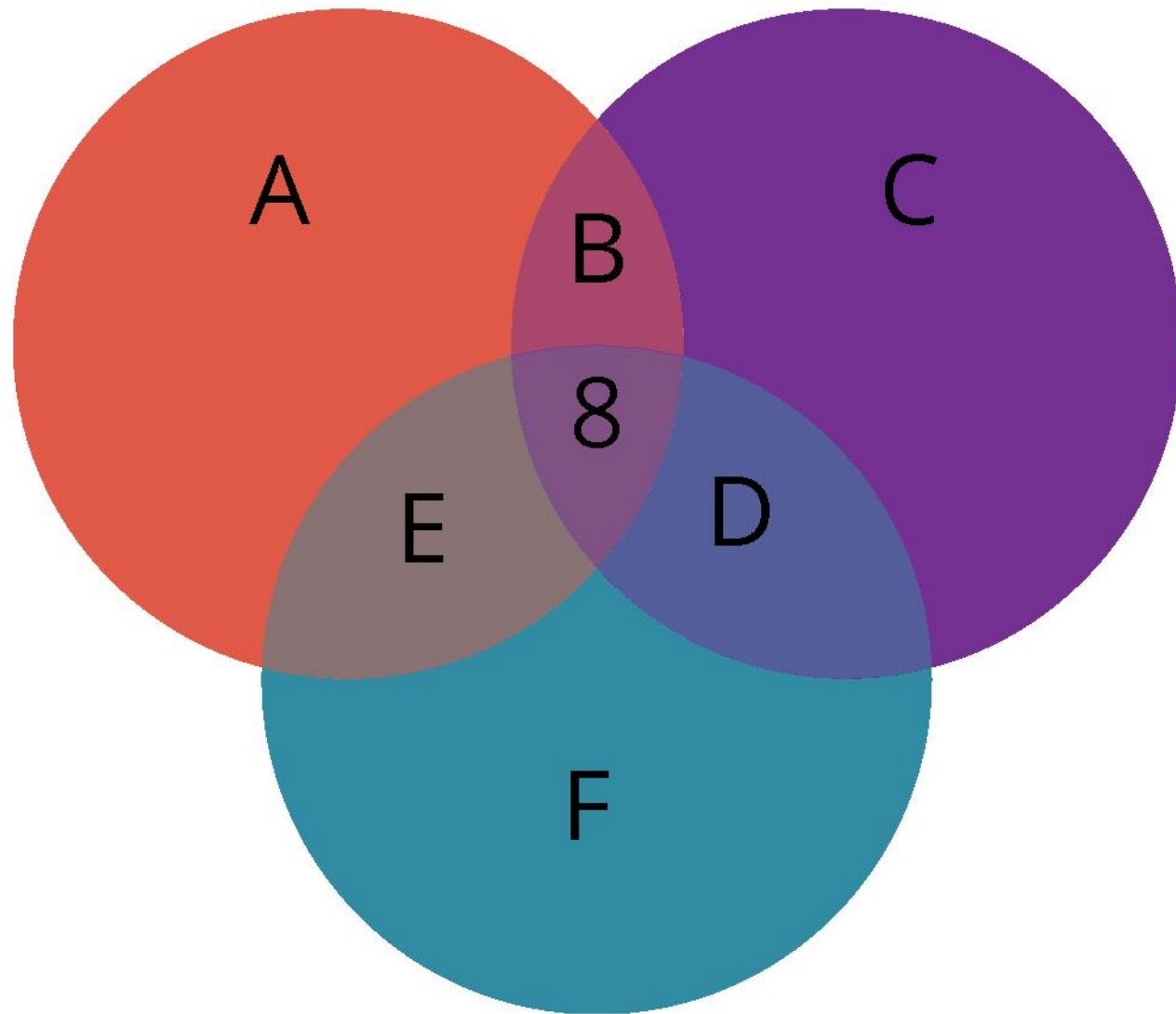
# EXAMPLE 3

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- 1□22
- 2□25
- 3□31
- 4□27
- 5□23

# SOLUTION

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$$A+B+C+D+E+F+8 = 160$$

$$A+B+C+D+E+F = 160 - 8 = 152$$

$$A+B+E+8 = 54$$

$$A+B+E = 46$$

$$B+C+D+8 = 86$$

$$B+C+D = 78$$

$$E+D+F+8 = 61$$

$$E+D+F = 53$$

$$A+B+E+B+C+D+E+D+F = 46+78+53 = 177$$

$$(A+B+C+D+E+F)+B+D+E = 177$$

$$B+D+E = 177-152 = 25$$



# EXAMPLE 4

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- P finished face A and B
- The smallest difference in finishing time is between P and R
- The smallest difference in finishing time is between R and W
- Y finished the A and Ad

Arrange the Anne according to the face to be done

# SOLUTION

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Fastest

Slowest



The order is RPYBW

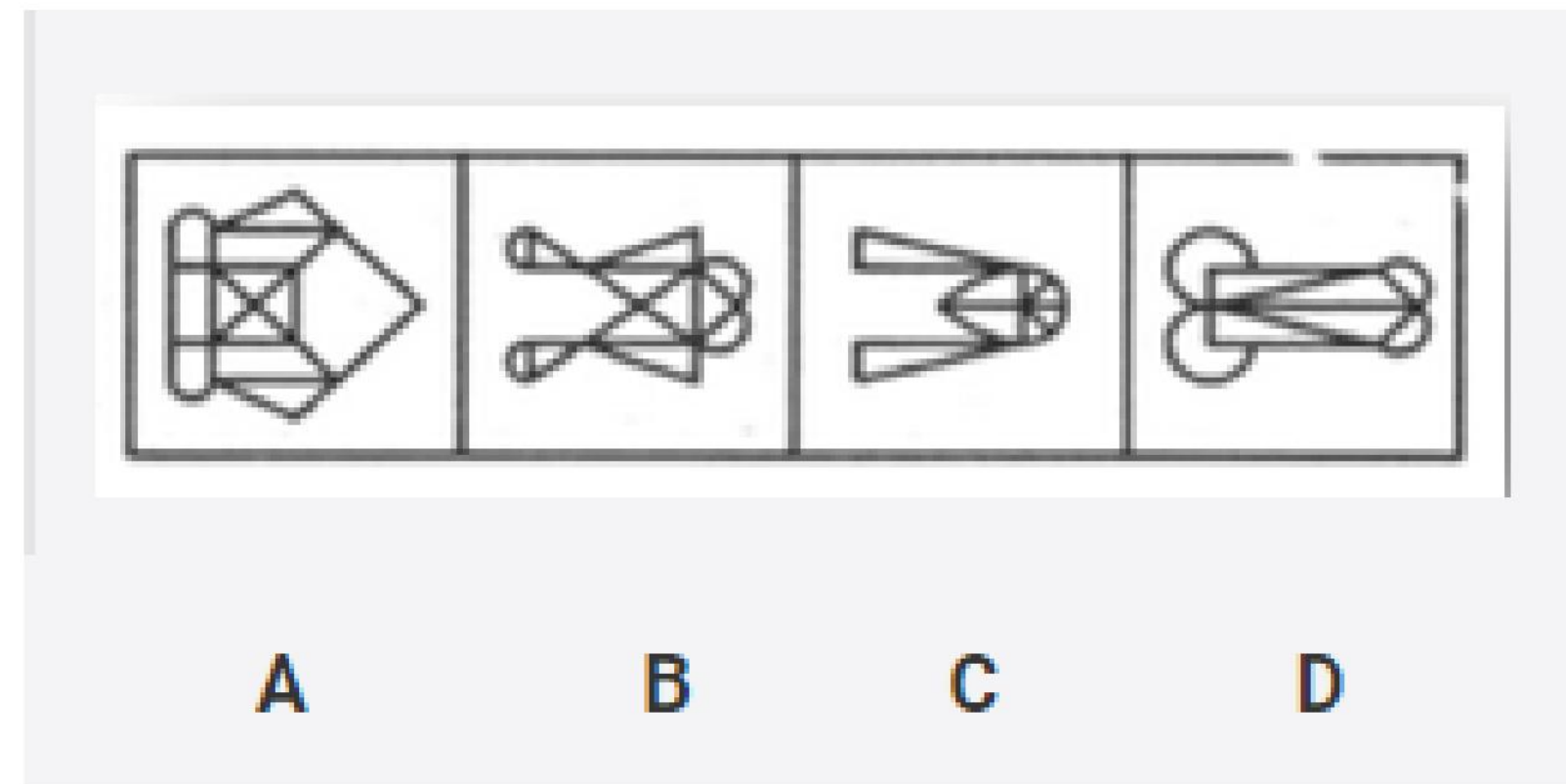
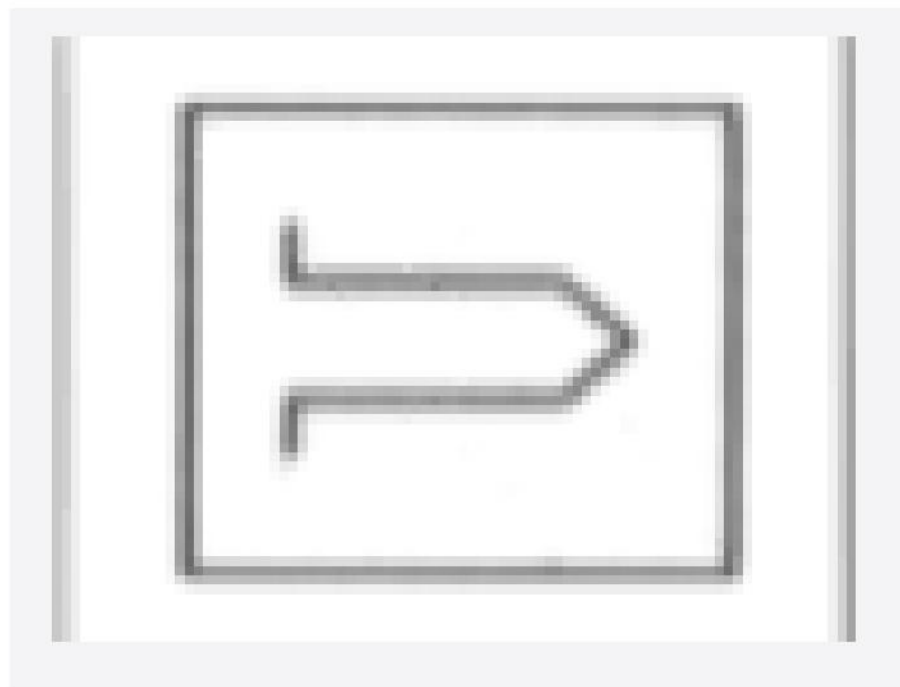
# VISUAL REASONING

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- Visual Reasoning deals with the logical reasoning topic which deals with the graphical representation of a problem and solving the problem based on the representation.
- In the candidate's perspective, a good reading and visualization along with object and image recognition and memory

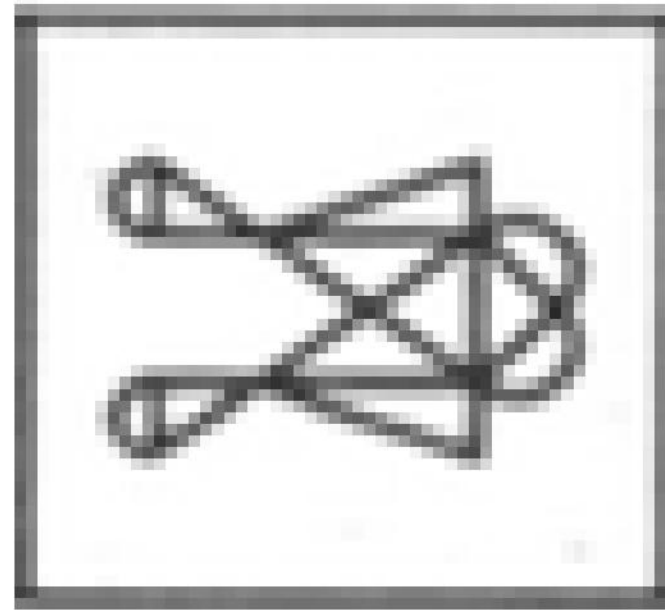
# EXAMPLE 1

In the below question one main figure is embedded in any of the four option figures. Find the option which contains main figure.



# SOLUTION

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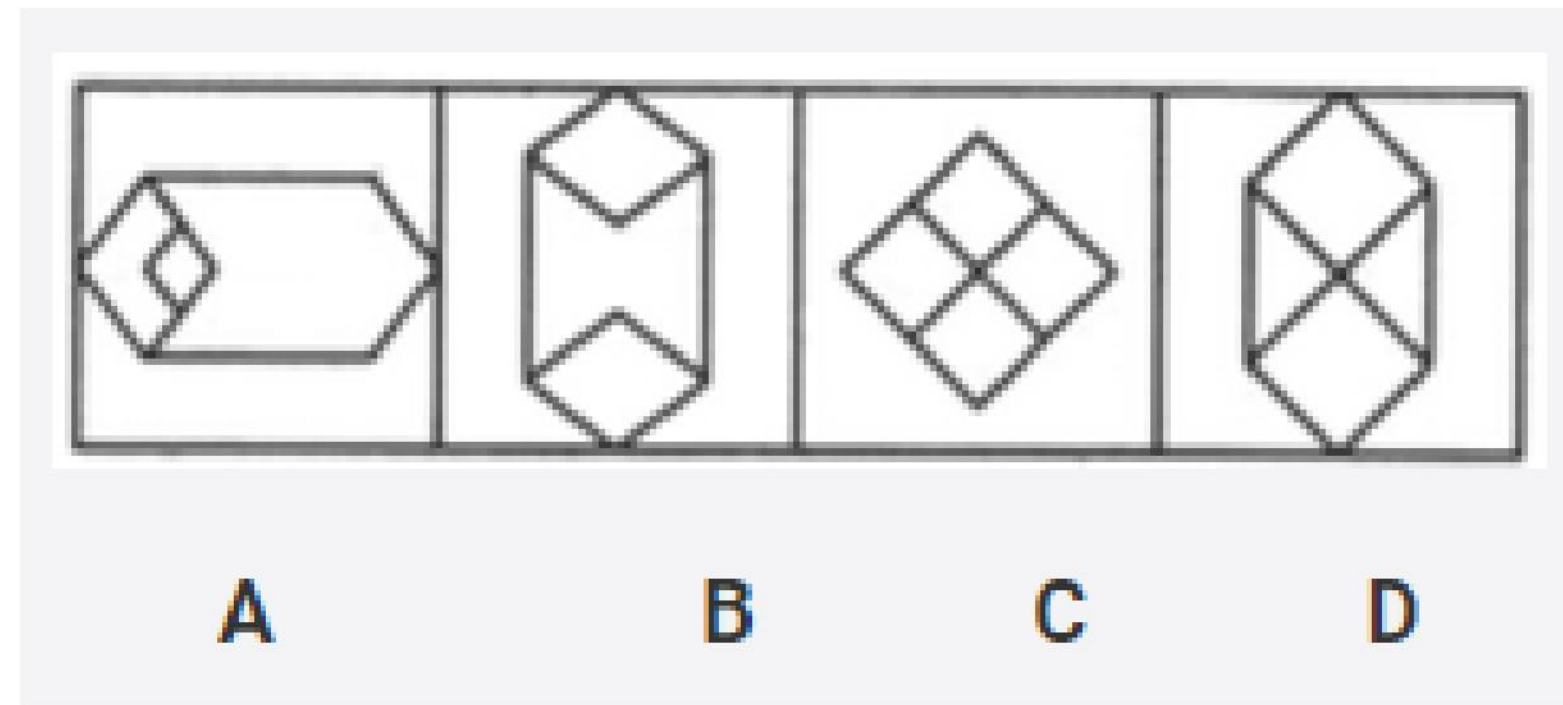


The  $\alpha$  node is a  $\beta$  node



# EXAMPLE 2

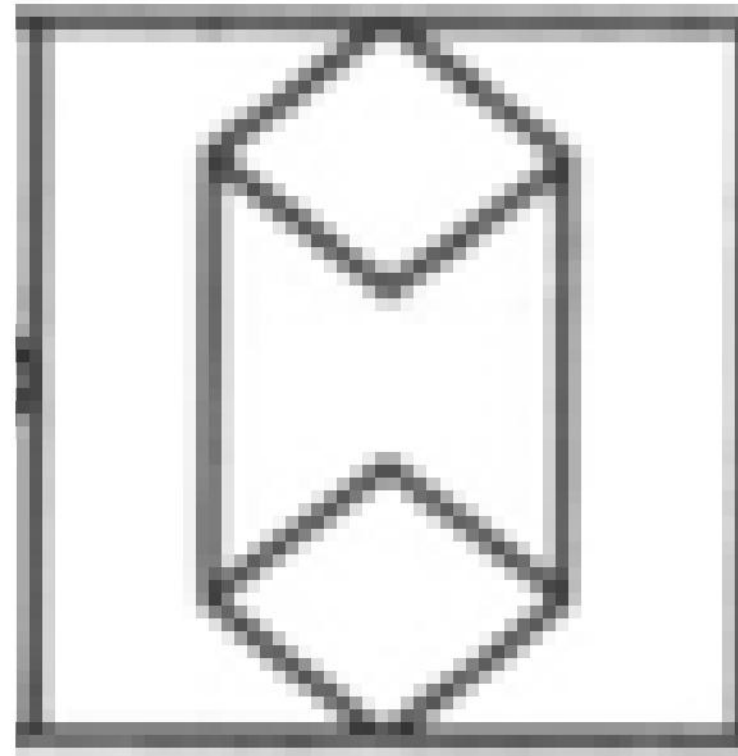
In the below question one main figure is embedded in any of the four option figures. Find the option which contains main figure.





# SOLUTION

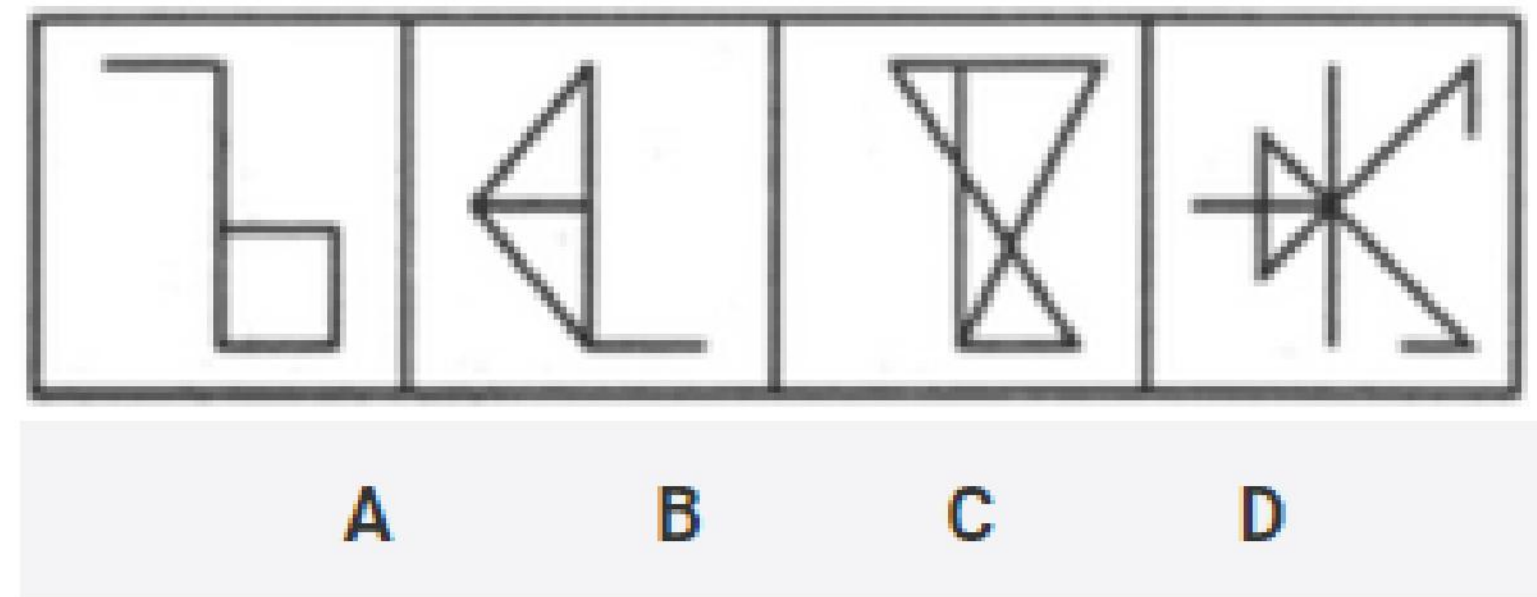
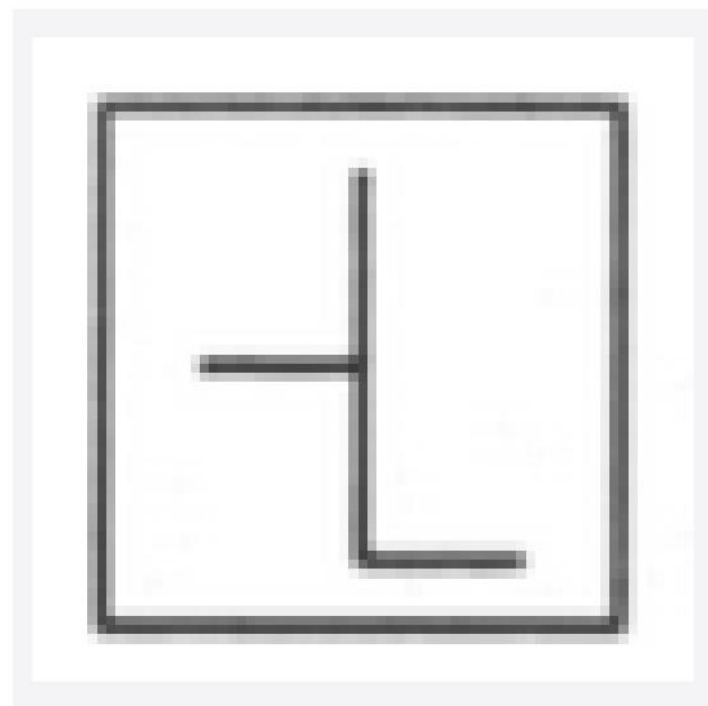
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The correct answer is B.

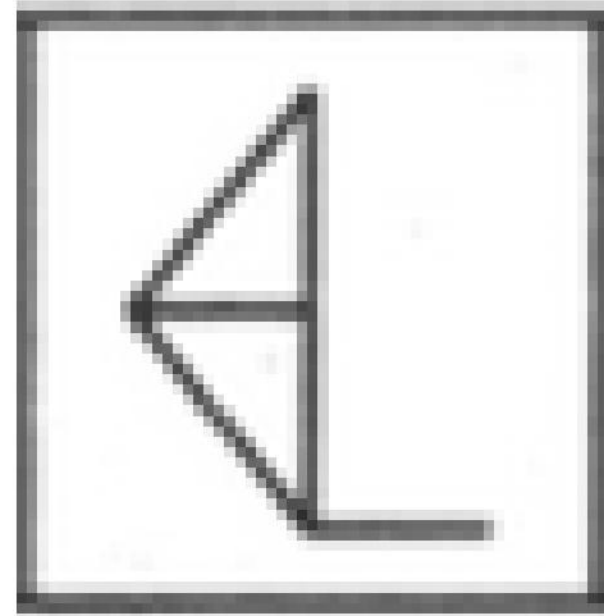
# EXAMPLE 3

In the below question one main figure is embedded in any of the four option figures.  
Find the option which contains main figure.



# SOLUTION

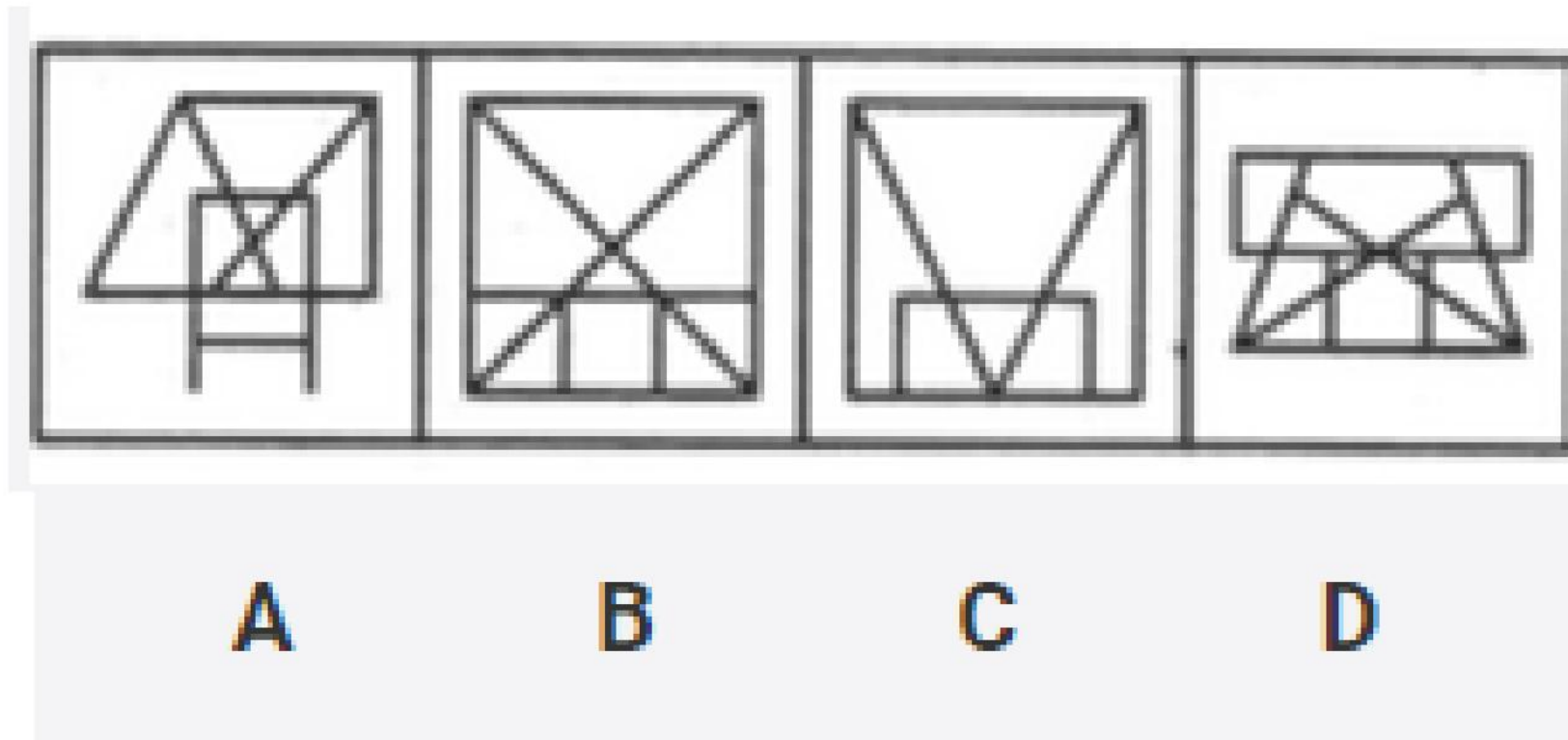
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The answer is **A**.

# EXAMPLE 4

In the below question one main figure is embedded in any of the four option figures.  
Find the option which contains main figure.

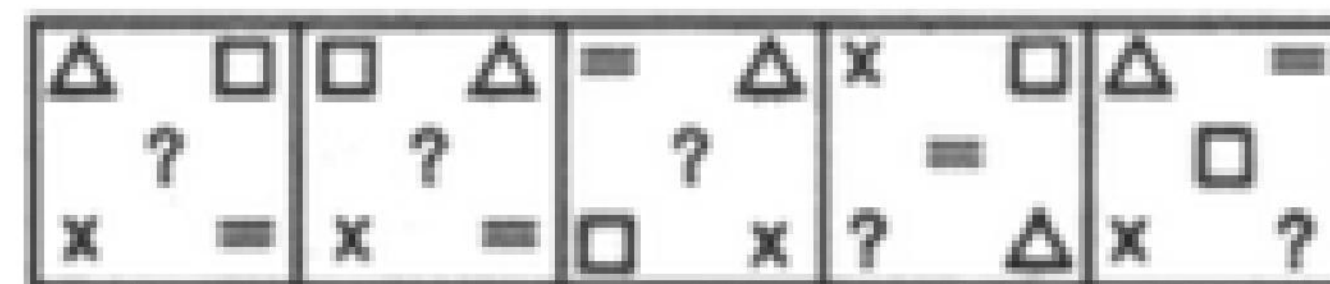
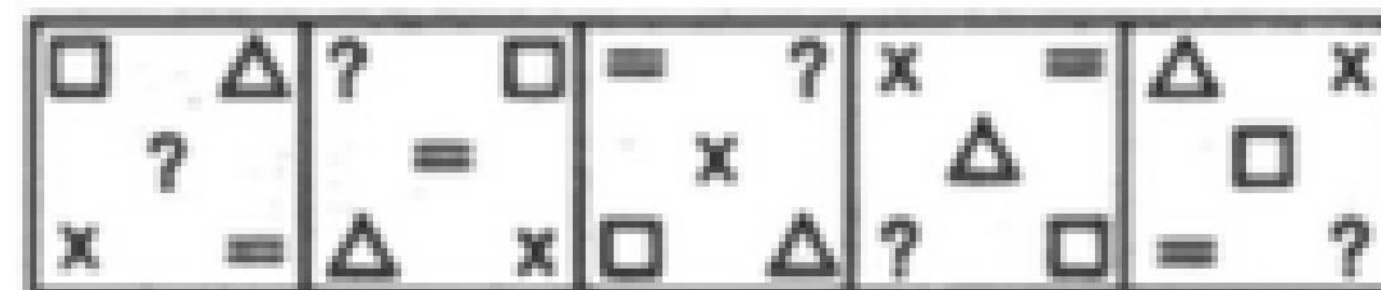




# Then can we Add Option to Do

# EXAMPLE 5

In the below question based on the main image a specific  $\Delta$  is followed in the answer image. Find the option which main in the correct  $\Delta$ .



(1)

(2)

(3)

(4)

(5)



# SOLUTION

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The correct answer is Option A

# RESOURCES

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Online like Facebook People People

YouTube

Please practice a man question a possible because that the only a improve  
cognitive skill



# THANK YOU

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