

$$18 \div 9 = \boxed{2}$$

$$27 \div 9 = \boxed{3}$$

But

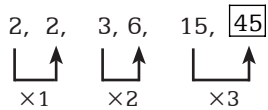
$$16 \div 8 = 2$$

$$21 \div 8 = 2.625$$

9. Select the alternative which completes the series filling up the blank space:
2, 2, 3, 6, 15, ?

- A) 25 B) 45
C) 30 D) 35

Explanation :



10. A is more intelligent than B. C is not more intelligent than B. D is more intelligent than E, but not more than A. Who is the most intelligent ?

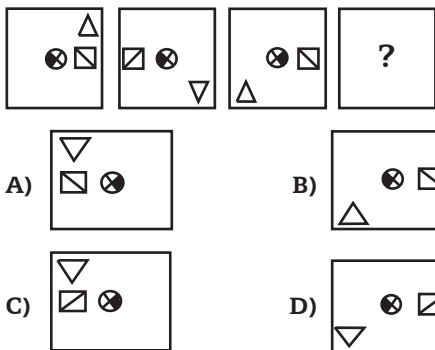
- A) A B) E
C) B D) D

Explanation :

A > B > C(i)
D > E(ii)
A > E(iii)
A is most intelligent.

Ans : (A)

11. Select the figure that will come next in the following figure series:



Ans : (C)

Explanation :

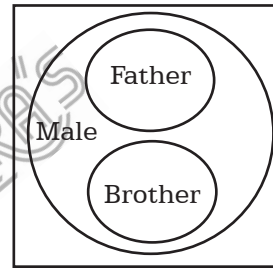
- △ – In each subsequent figure the triangle moves one step in clockwise direction and also changed to the inverted.
▣ – It moves to the opposite side and the diagonal line shifts to other corner.
⊗ – The shaded portion of the circle moves to the opposite side after every two figures.

12. Select the venn diagram which best represents relationship among the given three classes:
Male, Father, Brother



Explanation :

Ans : (A)



Ans : (B)

13. The statements given below are followed by four conclusions numbered I, II, III and IV. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows(s) from the statements.

Statements :

- All inductors are condensers.
- Some resistors are inductors.
- All atomic numbers are resistors.

Conclusions :

- I. All atomic numbers are condensers.
- II. Some atomic numbers are condensers
- III. Some condensers are resistors.
- IV. All resistors are condensers

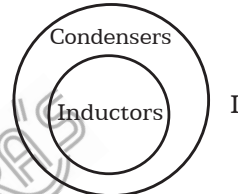
Select the correct answer :

- A) Only I follows
B) Only II follows
C) Only I and II follows
D) Only III follows

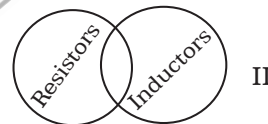
Explanation :

Ans : (*)

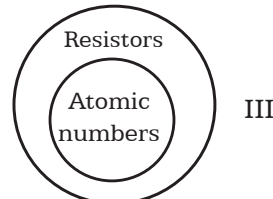
All inductors are condensers



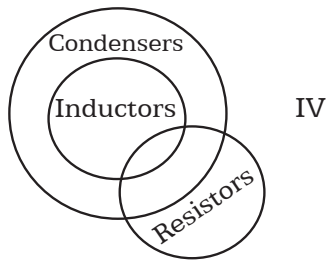
Some resistors are inductors



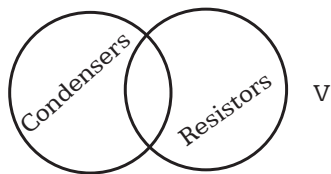
All atomic numbers are resistors



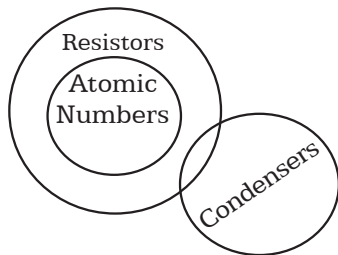
Combining I & II we get



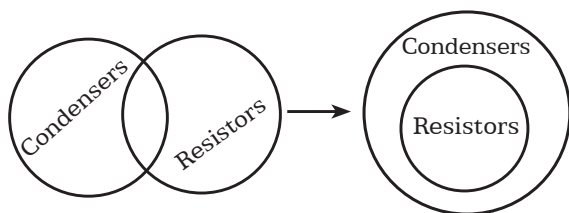
Conclusion : Some condensers are resistors.
Hence the conclusion III follows.
Some condensers are resistors.



Combining III & V we get



Hence the conclusions I & II do not follow.
From V, Some condensers are resistors.
→ conversion into "All resistors are condensers".



Hence the conclusions III & IV follow.

14. Select the option that is related to the third term in the same way as the second term is related the first term :
412 : 49 :: 361 : ?
A) 120 B) 82
C) 100 D) 144

Explanation :
 $4+1+2 = 7$; $7^2 = 49$
 $3+6+1 = 10$; $10^2 = 100$

Ans : (C)

15. Three of the following four letter – groups are alike in a certain way and one is different. Find the odd one out.
A) DEF B) HIK
C) CDE D) EFG

Explanation :

Ans : (B)

$$D \xrightarrow{+1} E \xrightarrow{+1} F$$

$$C \xrightarrow{+1} D \xrightarrow{+1} E$$

$$E \xrightarrow{+1} F \xrightarrow{+1} G$$

But

$$H \xrightarrow{+1} I \xrightarrow{+2} K$$

16. If in a certain code language CAGE is written as BDFG and NORMAL is written as MOXQDH, then how will GENERAL be written in the code language?

- A) MGGFFDX B) BGIKLMK
C) FGDFXMG D) FGMGXDH

Explanation :

Ans : (D)

C	A	G	E	N	O	R	M	A	L
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
B	D	F	G	M	O	X	Q	D	H

G E N E R A L
↓ ↓ ↓ ↓ ↓ ↓ ↓
F G M G X D H

17. The statements given below are followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements :

Some pens are books
All books are temples

Conclusions :

- I. All temples are pens
II. Some pens are temples

Select the correct answer :

- A) Both I and II follows
B) Only I follows
C) None follows
D) Only II follows

Explanation :

Ans : (A)

Some pens are books → I-type

All books are temples → A-type

I+A ⇒ I-type of conclusion

Some pens are temples. Hence the conclusion II follows.

Some pens are temples → conversion into All temples are pens.

