



Logical Reasoning

Solution

- 1. Answer: (D) If 4 * 9 % 2 = 47 $\Rightarrow 49 - 2 = 47$ 9 * 0 % 6 = 84 $\Rightarrow 90 - 6 = 84$ Then, $\Rightarrow 5 * 3 \% 7 = ?$
 - $\Rightarrow 53 7 = ?$ $\Rightarrow 46 = ?$

2.

- Answer: (D) $1/4/3 = 254 \Rightarrow 1 + 1 = 2$; 4 + 1 = 5; 3 + 1 = 4 $3/6/8 = 479 \Rightarrow 3 + 1 = 4$; 6 + 1 = 7; 8 + 1 = 9 $5/2/7 = ? \Rightarrow 5 + 1 = 6$; 2 + 1 = 3; 7 + 1 = 8? = 638
- Answer: (D)
 Logic: first number × third number + second number × third number
 9 θ 11 α 2 → 9 × 2 + 11 × 2 = 40
 13 θ 12 α 3 → 13 × 3 + 12 × 3 = 75
 40 θ 41 α 5 → 40 × 5 + 41 × 5 = 405
 Hence, 405 is the correct answer.

 Answer: (A)
- 4. Answer: (A)
 The logic followed here is, $8 \alpha 48 \rightarrow 8 \times (8 2) \rightarrow 48$ $12 \alpha 120 \rightarrow 12 \times (12 2) \rightarrow 120$ $15 \alpha 195 \rightarrow 15 \times (15 2) \rightarrow 195$ Same will be followed to answer the question, $19 \alpha A \rightarrow 19 \times (19 2) \rightarrow 323$ Hence '323' is the correct answer
- Hence, '323' is the correct answer.

 Answer: (A)

 Logic: Second digit is taken as power of the first digit in the number and "%" is taken as subtraction and "^" is taken as addition.

 Putting the codes in the given equation we have:

 6² 2² + 3² = 36 4 + 9 = 41 and

 7² 5² + 2² = 49 25 + 4 = 28

 Similarly,

 5² 3² + 1² = 25 9 + 1 = 17

 Hence, 17 is the correct answer.

- 6. Answer: (C) $\begin{vmatrix} Symbol & A & B \\ Meaning & \div & \times \end{vmatrix}$ 6 A 11 B 33 = 18 can be written as $6 \div 11 \times 33 = 18$ 4 B 18 A 9 = 8 can be written as $4 \times 18 \div 9 = 8$ Similarly,
 3 A 5 B 35 can be written as $3 \div 5 \times 35 = 21$ Hence, 21 is the correct answer.
- 7. Answer: (A)
 Here, if we consider the '\$' as '×' and '&' as '+' then only the equations become true.
 Like, $1 \$ 9 \& 5 = 1 \times 9 + 5 = 14$; $2 \& 4 \$ 3 = 2 + 4 \times 3 = 2 + 12 = 14$;
 - Hence, 7 \$ 9 & 9 = 7 × 9 + 9 = 63 + 9 = 72 **Answer: (D)**Symbol

 #

 #

 Meaning

 +

 ×
 - Based on this information, the answers for the equation can be obtained. $(8+9) \times 3 = 51$, $(12+6) \times 4 = 72$ Similarly, $(13+11) \times 6 = 144$ Hence, '144' is the correct answer.
 - Answer: (D)
 The logic follow is,
 1) 38 # 49 = 24= (3 + 8) + (4 + 9)= 11 + 13= 242) 96 # 51 = 21= (9 + 6) + (5 + 1)= 15 + 6= 21Similarly,
 3) 87 # 78 = ?= (8 + 7) + (7 + 8)

= 15 + 15 = 30

9.



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10. Answer: (C)

The pattern follow here is,

$$(27 \times 4) - (27 + 4) = 77;$$

$$(31 \times 9) - (31 + 9) = 239;$$

Similarly,

$$(21 \times 6) - (21 + 6) = 99$$

Hence, 99 is the correct answer.

11. Answer: (A)

Here.

$$=(11+2)\times 6$$

$$= 13 \times 6$$

$$= 78$$

$$= (15 + 4) \times 8$$

= 152

Similarly,

$$=(17+6)\times 7$$

$$= 23 \times 7 = 161$$

12. Answer: (B)

The pattern followed here is,

| | Numbers | 2 | 5 | 8 | 11 |
|--|-----------|---|-------|-------|-------|
| | As per | 0 | 0 + 1 | 1 + 3 | 4 + 5 |
| | the given | | = 1 | = 4 | = 9 |
| | logic | | | | |
| | | | | | |

Hence, 9 is the correct answer.

13. Answer: (C)

The pattern followed is

$$17 * 36 = 1 + 7 + 3 + 6 = 17;$$

$$41 * 56 = 4 + 1 + 5 + 6 = 16$$
;

Similarly, 41 * 32 = 4 + 1 + 3 + 2 = 10;

14. Answer: (D)

The pattern followed is,

$$14 \$ 8 = 14 \times 8 - 21 = 91;$$

$$18 \$ 4 = 18 \times 4 - 21 = 51;$$

So, $21 \$ 9 = 21 \times 9 - 21 = 168$;

15. Answer: (D)

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16. Answer: (D)

 $7^2 A 7 B 9 = 16$

$$\Rightarrow 7^2 \div 7 + 9 = 7 + 9 = 16$$

 $5^2 A 5 B 7 = 12$

$$\Rightarrow 5^2 \div 5 + 7 = 5 + 7 = 12$$

$$9^2 A 3 B 8 = ?$$

$$\Rightarrow$$
 9² ÷ 3 + 8 = 27 + 8 = 35 = ?

17. Answer: (B)

Logic here is.

$$\Rightarrow$$
 $4^2 \theta 2 \alpha 16 = 146$

$$\Rightarrow$$
 (16 × 10) + 2 – 16 = 146

$$\Rightarrow 162 - 16 = 146$$

$$\Rightarrow 146 = 146$$

$$\Rightarrow$$
 3² θ 5 α 18 = 77

$$\Rightarrow$$
 (9 × 10) + 5 – 18 = 77

$$\Rightarrow 95 - 18 = 77$$

$$\Rightarrow 77 = 77$$

$$\Rightarrow$$
 4² θ 4 α 39 = ?

$$\Rightarrow$$
 (16 × 10) + 4 – 39 = ?

$$\Rightarrow$$
 164 – 39 = ?

$$\Rightarrow 125 = 125$$

Answer: (B)

$$\Rightarrow$$
 7 + 3 = 10 × 6 = 60

$$9 + 6 = 15 \times 11 = 165$$

Then
$$11 + 5 = 16 \times 10 = 160$$
.

19. Answer: (C)

$$6 # 8 = (6)^2 + (8)^2 = 100 i.e, (10)^2$$

$$5 # 12 = (5)^2 + (12)^2 = 169 i.e, (13)^2$$

Thus,
$$9 \# 40 = (9)^2 + (40)^2 = 1681$$
 i.e, $(41)^2$

20. Answer: (B)

$$(7 + 4) = 11$$

$$\Rightarrow 11 \times (11 - 1) = 11 \times 10 = 110$$

$$19 + 12 = 31$$

$$\Rightarrow$$
 31 × (31 - 1) = 31 × 30 = 930

Likewise,
$$16 + 9 = 25$$

$$\Rightarrow 25 \times (25 - 1) = 25 \times 24 = 600$$