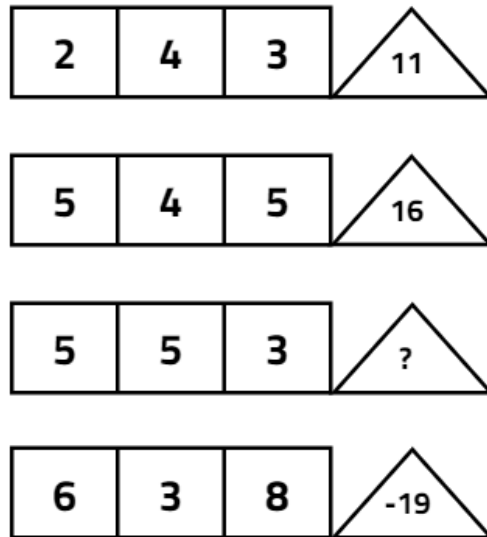


## Puzzles – Advance

1. Find the missing term?

TUF



- a) 34
- b) 41
- c) 63
- d) 25

Ans) b

**Explanation:**

$$2^2 + 4^2 - 3^2 = 11$$

$$5^2 + 4^2 - 5^2 = 16$$

$$5^2 + 5^2 - 3^2 = 41$$

$$6^2 + 3^2 - 8^2 = -19$$

2. Find the missing term

TUF

9	4	1
16	9	4
?	16	9

- a) 16
- b) 64
- c) 36
- d) 25

Ans) d

**Explanation:**

the pattern is

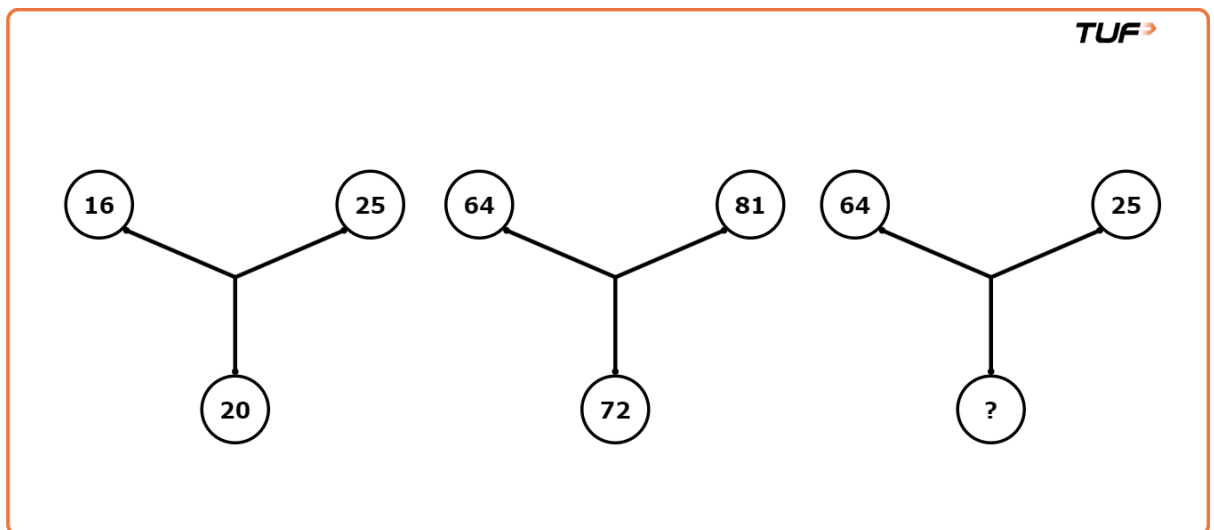
$$3^2 \ 2^2 \ 1^2$$

$$4^2 \ 3^2 \ 2^2$$

so last row is just +1 at every digit in the next row

$$5^2 \ 4^2 \ 3^2$$

3. Find the missing term.



- a) 40
- b) 42
- c) 39
- d) 44

Ans) a

**Explanation:**

In first figure,

$$16 = 4^2$$

$$25 = 5^2$$

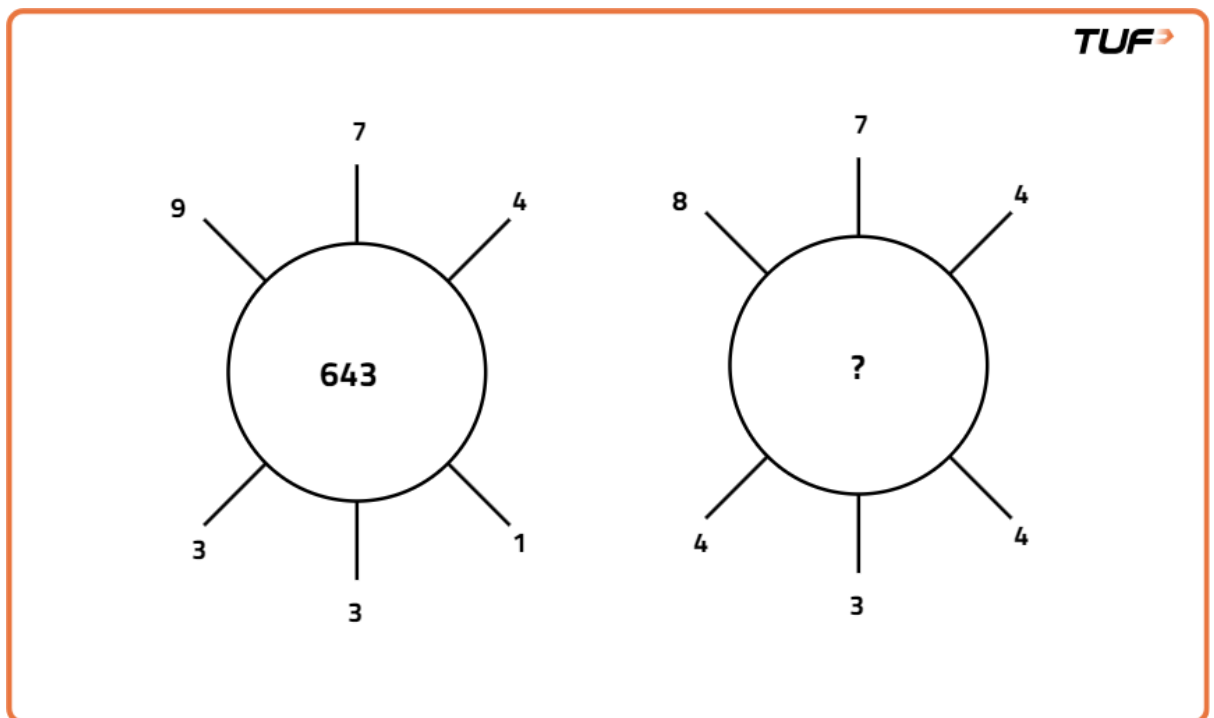
$$4 * 5 = 20$$

Similarly,

$$64 = 8^2, 81 = 9^2$$

$$8 * 9 = 72$$

4. Find the missing term.



- a) 440
- b) 441
- c) 340
- d) 400

Ans) a

**Explanation:**

In the first figure,

$$974 - 331 = 643$$

Similarly,

$$874 - 434 = 440$$

5. Find the missing term.

TUF

16	30	20
9	12	25
18	23	26
7	19	?

- a) 21
- b) 19
- c) 18
- d) 14

Ans) b

**Explanation:**

In the first row,

$$16 + 9 = 18 + 7$$

Similarly,

$$30 + 12 = 23 + 19$$

$$20 + 25 = 26 + 19$$

6. Find the missing term.

**TUF** 

<b>9</b>	<b>8</b>	<b>128</b>
<b>7</b>	<b>6</b>	<b>72</b>
<b>11</b>	<b>4</b>	<b>?</b>

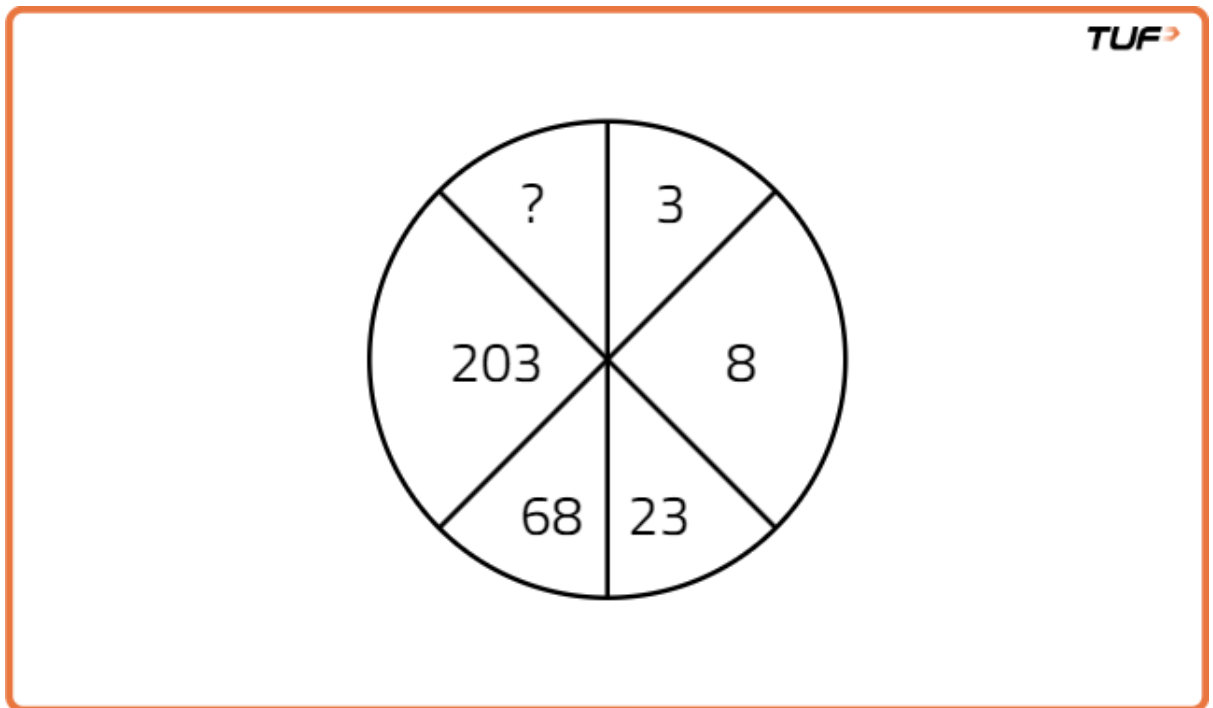
- a) 189
- b) 213
- c) 244
- d) 123

Ans) d

**Explanation:**

sum of square of left and centre number - sum of left and centre number =  
right hand side number

7. Find the missing number.



- a) 246
- b) 611
- c) 314
- d) 532

Ans) b

**Explanation:**

$$3 * 3 - 1 = 8$$

$$8 * 3 - 1 = 23$$

$$23 * 3 - 1 = 68$$

$$68 * 3 - 1 = 203$$

$$204 * 3 - 1 = 611$$

8. Find the missing term.

**TUF** 

<b>11</b>	<b>9</b>	<b>6</b>
<b>4</b>	<b>10</b>	<b>13</b>
<b>7</b>	<b>12</b>	<b>?</b>

- a) 6
- b) 4
- c) 2
- d) 9

Ans) d

**Explanation:**

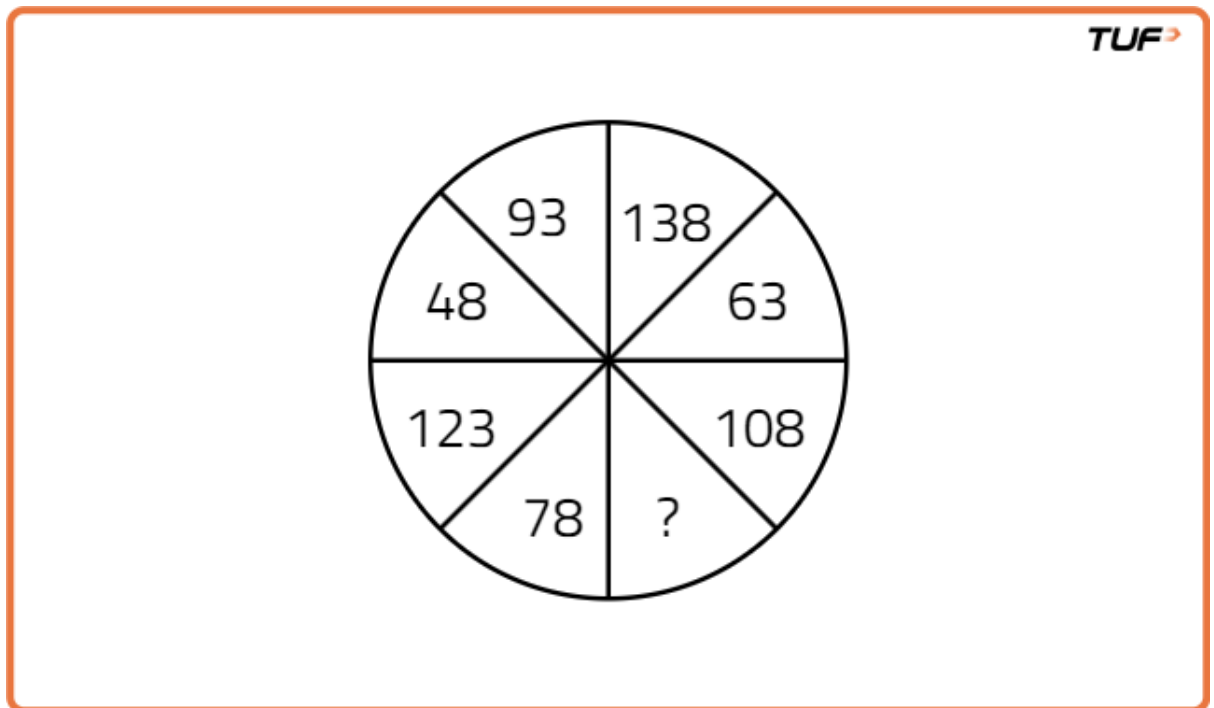
$$11 + 9 + 6 = 26$$

$$4 + 10 + 13 = 27$$

$$7 + 12 + 9 = 28$$



9. Find the missing term.



- a) 171
- b) 166
- c) 153
- d) 141

Ans) c

**Explanation:**

skip 3 places and add 15,

$$48 + 15 = 63$$

$$63 + 15 = 78$$

$$78 + 15 = 93$$

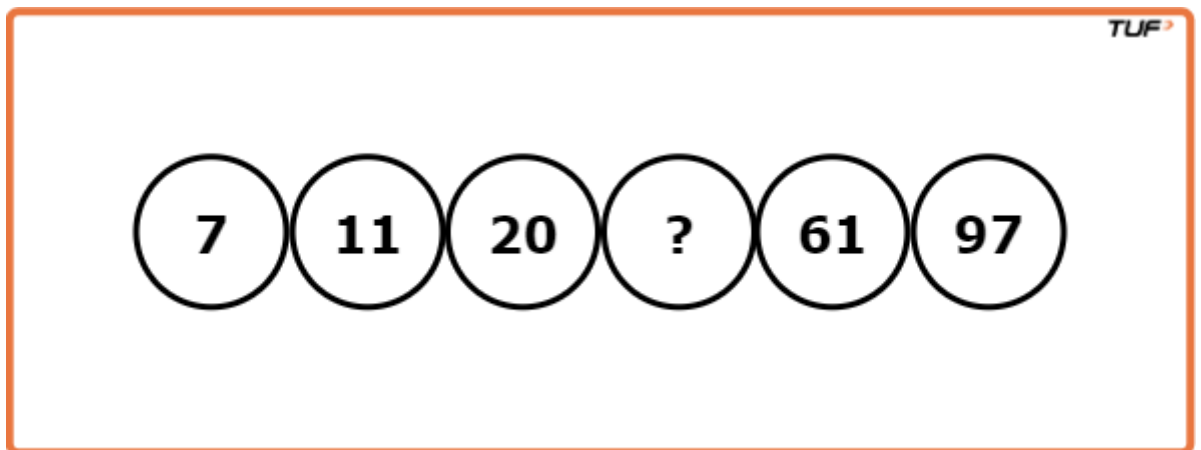
$$93 + 15 = 108$$

$$108 + 15 = 123$$

$$123 + 15 = 138$$

$$138 + 15 = 153$$

10. Find the missing term.




- a) 36
- b) 32
- c) 25
- d) 41

Ans) a

**Explanation:**

The difference between the term is a series of 4, 9, 16, 25, 36

11. Find the missing term.



<b>3</b>	<b>5</b>	<b>16</b>
<b>8</b>	<b>10</b>	<b>81</b>
<b>13</b>	<b>15</b>	<b>?</b>

- a) 182
- b) 190
- c) 196
- d) 172

Ans) c

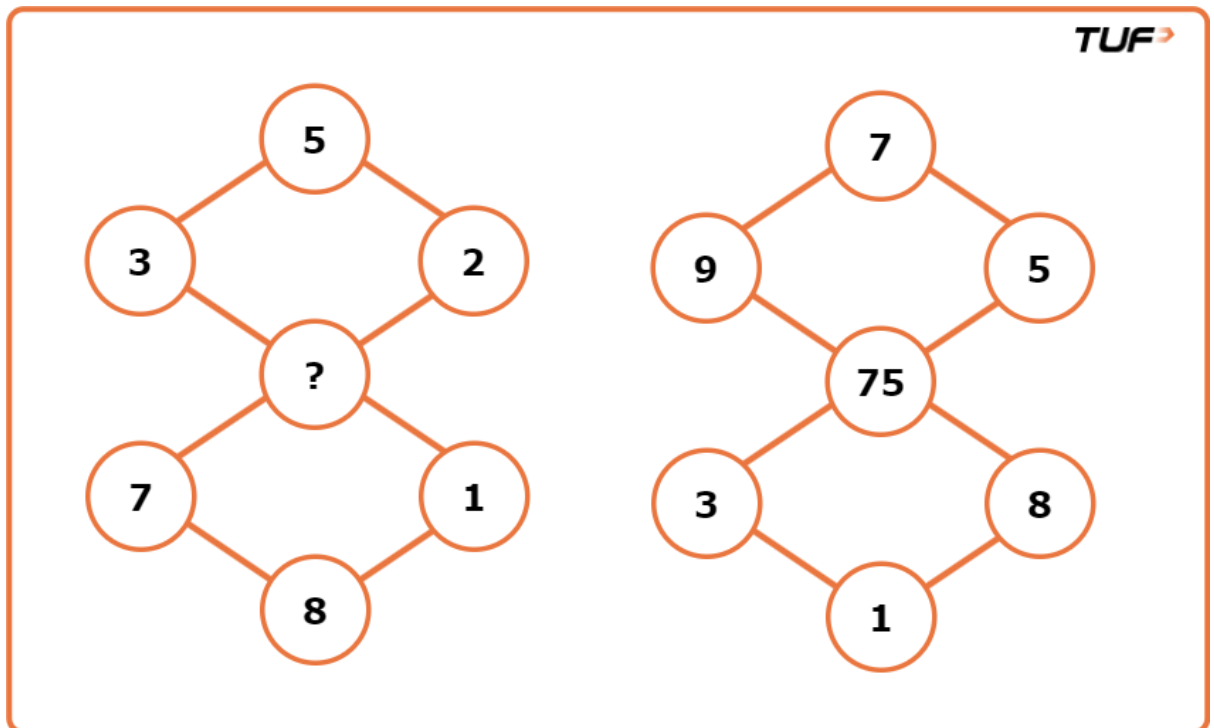
**Explanation:**

$$(3 + 5) / 2 = 4, 4^2 = 16$$

$$(8 + 10) / 2 = 9, 9^2 = 81$$

$$(13 + 15) / 2 = 14, 14^2 = 196$$

12. Find the missing term.



- a) 109
- b) 102
- c) 107
- d) 101

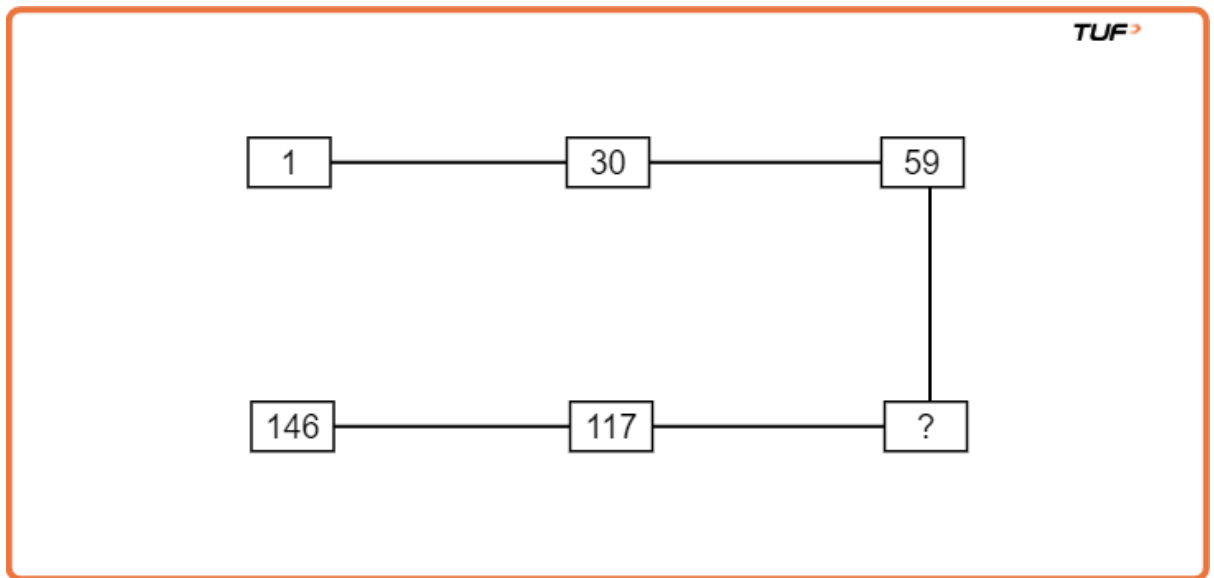
Ans) b

**Explanation:**

$$(9 + 5 + 3 + 8) + (7^2 + 1^2) = 75$$

$$(3 + 2 + 7 + 1) + (5^2 + 8^2) = 102$$

13. Find the missing term.



- a) 92
- b) 90
- c) 88
- d) 86

Ans) c

**Explanation:**

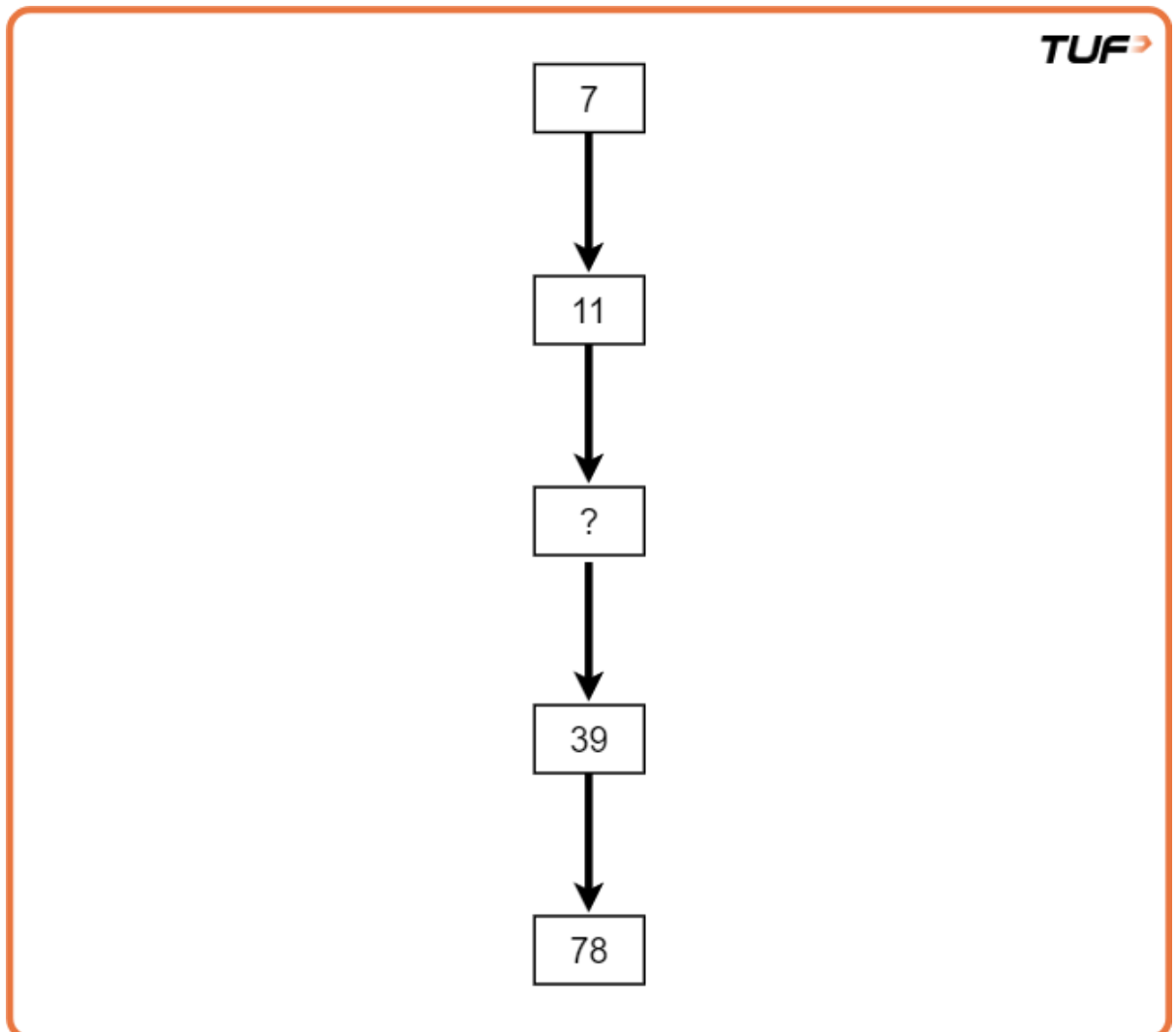
Each value is the average of its adjacent number

$$(1 + 59) / 2 = 30$$

$$(59 + 117) / 2 = 88$$

$$(146 + 88) / 2 = 117$$

14. Find the missing term.



- a) 25
- b) 21
- c) 20
- d) 27

Ans) c

**Explanation:**

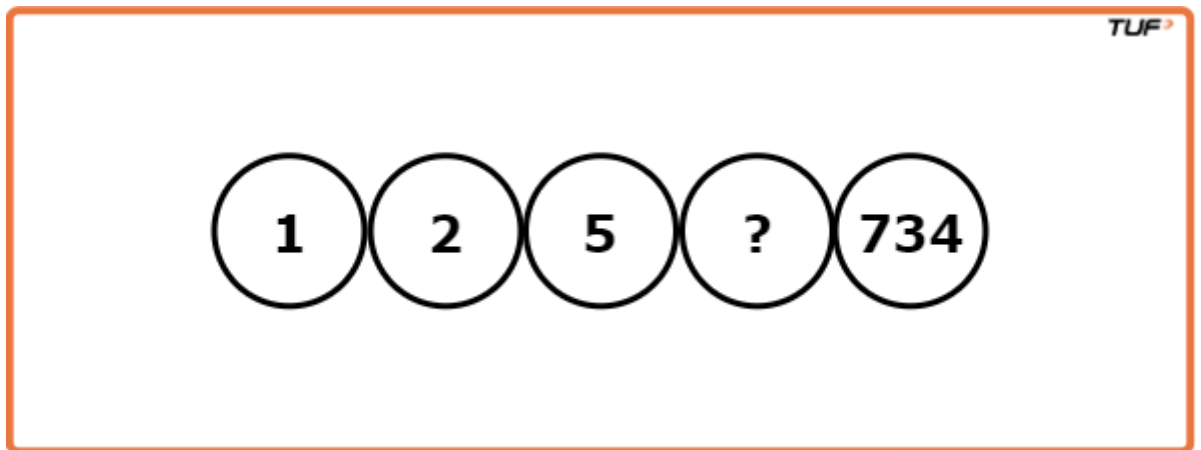
$$7 * 2 - 3 = 11$$

$$11 * 2 - 2 = 20$$

$$20 * 2 - 1 = 39$$

$$39 * 2 - 0 = 78$$

15. Find the missing term.



- a) 27
- b) 28
- c) 29
- d) 26

Ans) a

**Explanation:**

$$1 + 2^2 = 5$$

$$2 + 5^2 = 27$$

$$5 + 27^2 = 734$$