

## Quantitative Reasoning

Study each given sample, then work out the value of '?' in each question that follows.

**SAMPLE A:**  $\begin{pmatrix} 3 & 4 \\ 7 & 6 \end{pmatrix} \begin{pmatrix} 8 & 12 \\ 13 & 9 \end{pmatrix} \begin{pmatrix} 0 & 10 \\ 19 & 9 \end{pmatrix}$

61.  $\begin{pmatrix} 15 & 12 \\ 13 & ? \end{pmatrix}$

- A. 12
- B. 14
- C. 16
- D. 18
- E. 20

62.  $\begin{pmatrix} 7\frac{1}{2} & 1 \\ ?, & 9 \end{pmatrix}$

- A. 1
- B.  $1\frac{1}{2}$
- C. 2
- D.  $2\frac{1}{2}$
- E.  $3\frac{1}{2}$

63.  $\begin{pmatrix} 14 & 13 \\ ?, & 10 \end{pmatrix}$

- A. 2
- B. 3
- C. 5
- D. 7
- E. 9

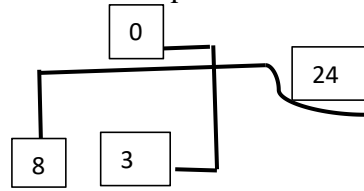
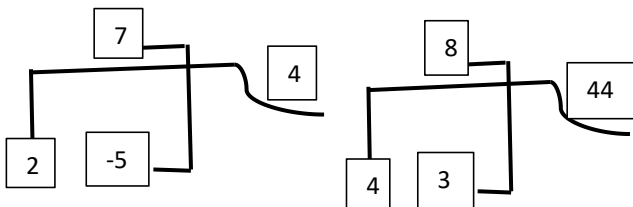
64.  $\begin{pmatrix} ? & 0 \\ -11 & -2 \end{pmatrix}$

- A. 9
- B. 7
- C. 5
- D. 3
- E. 2

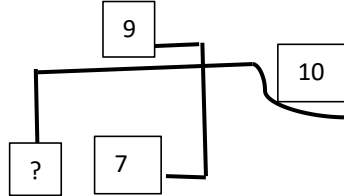
65.  $\begin{pmatrix} 16 & ? \\ 22 & 40 \end{pmatrix}$

- A. 4
- B. 0
- C. 1
- D. -2
- E. -4

**SAMPLE B:**

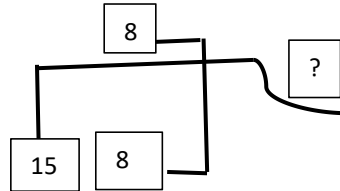


66.



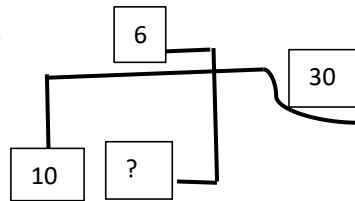
- A. 2
- B. 3
- C. 5
- D. 7
- E. 9

67.



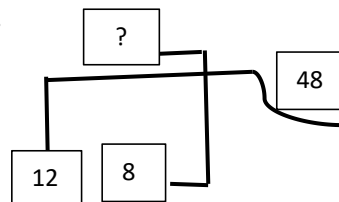
- A. 4
- B. 0
- C. 1
- D. -2
- E. -4

68.



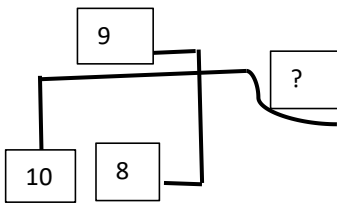
- A. 9
- B. 7
- C. 5
- D. 3
- E. 2

69.



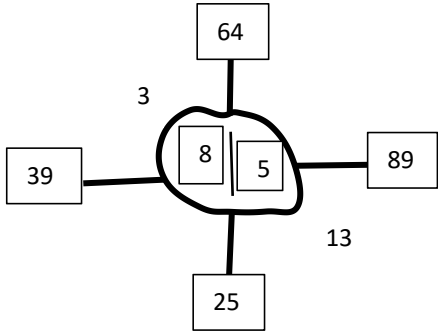
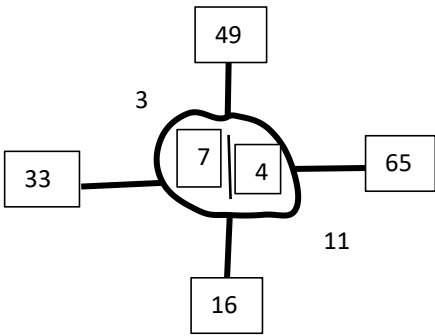
- A. 4
- B. 8
- C. 12
- D. 16
- E. 20

70.

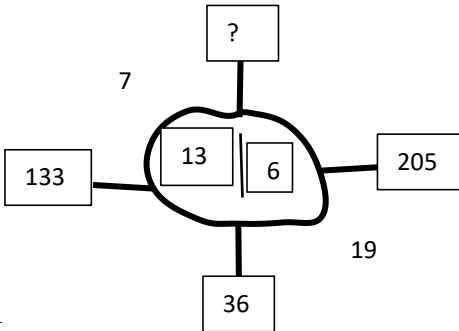


- A. 5
- B. 10
- C. 15
- D. 25
- E. 40

SAMPLE C:

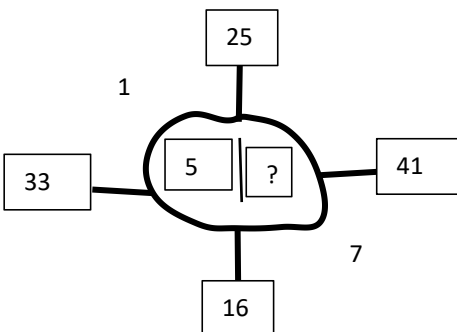


71.



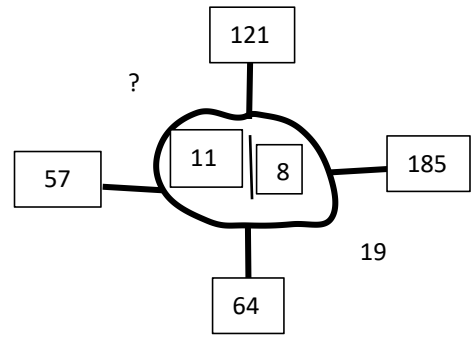
- A. 36
- B. 49
- C. 169
- D. 338
- E. 361

72.



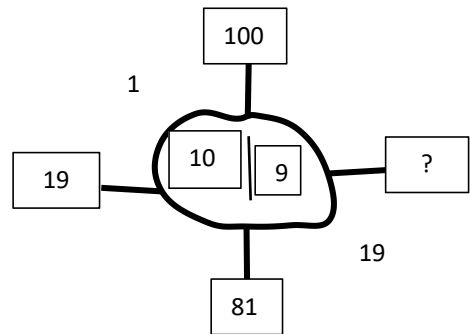
- A. 2
- B. 4

- C. 6
  - D. 9
  - E. 11
- 73.



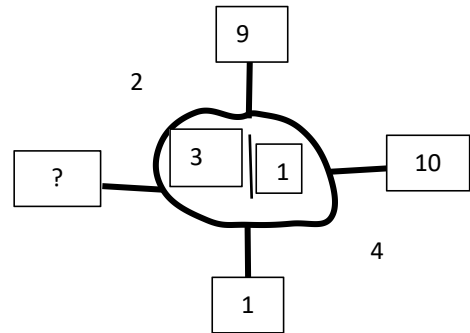
- A. 2
- B. 3
- C. 4
- D. 46
- E. 56

74.



- A. 1
- B. 19
- C. 29
- D. 110
- E. 181

75.



- A. 2
- B. 4
- C. 6
- D. 8
- E. 10

**SAMPLE D:**

$5 * 9 = 56$

$3 * 5 = 16$

$1 * 13 = 168$

**76.**  $7 * 11 = ?$

A. 53

B. 72

C. 87

D. 92

E. 106

**77.**  $10 * ? = 125$

A. 11

B. 12

C. 13

D. 14

E. 15

**78.**  $? * 9 = 77$

A. 1

B. 2

C. 3

D. 4

E. 5

**79.**  $1 * 8 = ?$

A. 7

B. 9

C. 48

D. 63

E. 85

**80.**  $5 * ? = 75$

A. 7

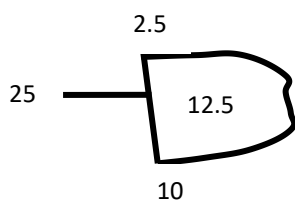
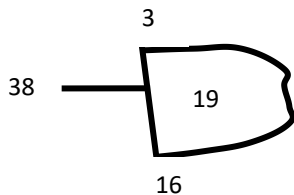
B. 10

C. 14

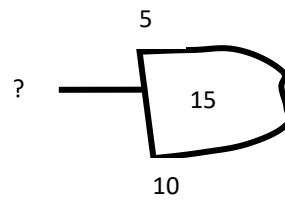
D. 15

E. 18

**SAMPLE E:**



**81.**



A. 50

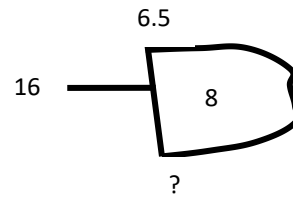
B. 45

C. 30

D. 25

E. 20

**82.**



A. 1.5

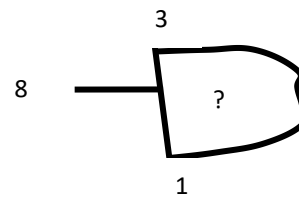
B. 2.5

C. 3.5

D. 4

E. 5

**83.**



A. 2

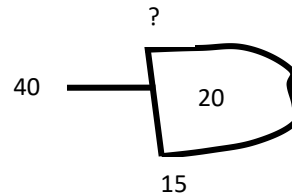
B. 4

C. 6

D. 8

E. 10

**84.**



A. 5

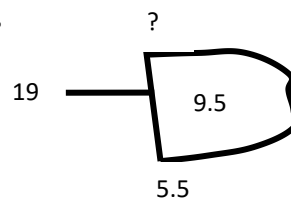
B. 10

C. 15

D. 25

E. 40

**85.**



A. 1

B. 2

C. 3

D. 4

E. 5

**SAMPLE F:**

12,  $\Rightarrow$  16,  $\Rightarrow$  20,  $\Rightarrow$  24

3,  $\Rightarrow$  15,  $\Rightarrow$  27,  $\Rightarrow$  39

0,  $\Rightarrow$  7,  $\Rightarrow$  14,  $\Rightarrow$  21

**86.** ?,  $\Rightarrow$  10,  $\Rightarrow$  15,  $\Rightarrow$  20

- A. 0
- B. 1.5
- C. 3
- D. 5
- E. 8.5

**87.** 8,  $\Rightarrow$  ?,  $\Rightarrow$  18,  $\Rightarrow$  23

- A. 17
- B. 15
- C. 14
- D. 13
- E. 11

**88.** 13,  $\Rightarrow$  26,  $\Rightarrow$  ?,  $\Rightarrow$  52

- A. 7.5
- B. 8
- C. 38.5
- D. 39
- E. 57

**89.** ?,  $\Rightarrow$  17,  $\Rightarrow$  29,  $\Rightarrow$  41

- A. 5
- B. 7
- C. 8
- D. 9
- E. 11

**90.** 9,  $\Rightarrow$  14.5,  $\Rightarrow$  20,  $\Rightarrow$  ?

- A. 22.5
- B. 25.5
- C. 30
- D. 33.5
- E. 42

**SAMPLE G:**

$${}^6\Delta_4 = 25$$

$${}^6\nabla_4 = 23$$

**91.**  ${}^8\Delta_?$  = 41

- A. 2
- B. 3
- C. 5
- D. 6

E. 7

**92.**  ${}^{19}\Delta_?$  = 58

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

**93.**  ${}^{36}\Delta_{\frac{3}{4}}$  = ?

- A. 25
- B. 26
- C. 27
- D. 28
- E. 29

**94.**  ${}^?\nabla_6$  = 59

- A. 10
- B. 15
- C. 22
- D. 31
- E. 45

**95.**  ${}^{3\frac{1}{3}}\nabla_{\frac{3}{4}}$  = ?

- A. 1
- B.  $1\frac{1}{4}$
- C.  $1\frac{1}{2}$
- D. 2
- E.  $2\frac{1}{2}$

**Complete the given series.**

**96.** 1, 2, 3, 4, ----

- A. 9
- B. 8
- C. 7
- D. 6
- E. 5

**97.** 35, 27, 19, 11, ----

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

**98.**  $\frac{1}{4}$ , 1, 4, 16, ----

- A. 34
- B. 46

C. 52

D. 64

E. 78

**99.** 600, 300, 150, 75, ----

A. 55

B. 43.5

C. 37.5

D. 28

E. 0

**100.** 15, 14, 12, 9, ----

A. 13

B. 11

C. 7

D. 5

E. 3