



Missing Number

$\overset{\cdot}{2}, \overset{\cdot}{3}, \overset{\cdot}{4} \dots$

Relation Between 3 or more number



$$a, b = c$$

$$\frac{a+b}{4} = c$$

$$\begin{array}{r} 156 \\ \div 4 \\ \hline 69, 87, = 39 \end{array}$$

$$93, 95 = 47$$

$$\begin{array}{r} 188 \\ \div 4 \\ \hline 52, 64 = ? \end{array}$$

$$\checkmark [A] 29 \quad \frac{116}{4} = 29$$

$$[C] 45$$

$$[B] 37$$

$$[D] 53$$

In each of the given number-clusters, the number on the right side of '=' (the equal to sign) is calculated by performing certain mathematical operations on the four numbers on the left of = (the equal to sign). All three number-clusters follow the same pattern. Select the number from among the given options that can replace the question mark (?) in the third number-cluster.

$$A \times B \div (C - D) = E$$

दिए गए प्रत्येक संख्या-समूह में, '=' (चिह्न के बराबर) के दाईं ओर की संख्या की गणना = (चिह्न के बराबर) के बाईं ओर की चार संख्याओं पर कुछ गणितीय परिचालन करके की जाती है। सभी तीन संख्या-समूह एक ही पैटर्न का अनुसरण करते हैं। दिए गए विकल्पों में से उस संख्या का चयन करें जो तीसरे संख्या-समूह में प्रश्न चिह्न (?) को प्रतिस्थापित कर सके।

$$12, 4, 37, 25 = 4$$

$$2, 36, 87, 51 = 2$$

$$18, 3, 58, 49 = ?$$

[A] 5

[C] 8

$$12 + 4 - 12 = 4$$

$$12 \times 4 \div 12 = 4$$

$$2 \times 36 \div (87 - 51)$$

$$18 \times 3 \div (58 - 49) \Rightarrow$$

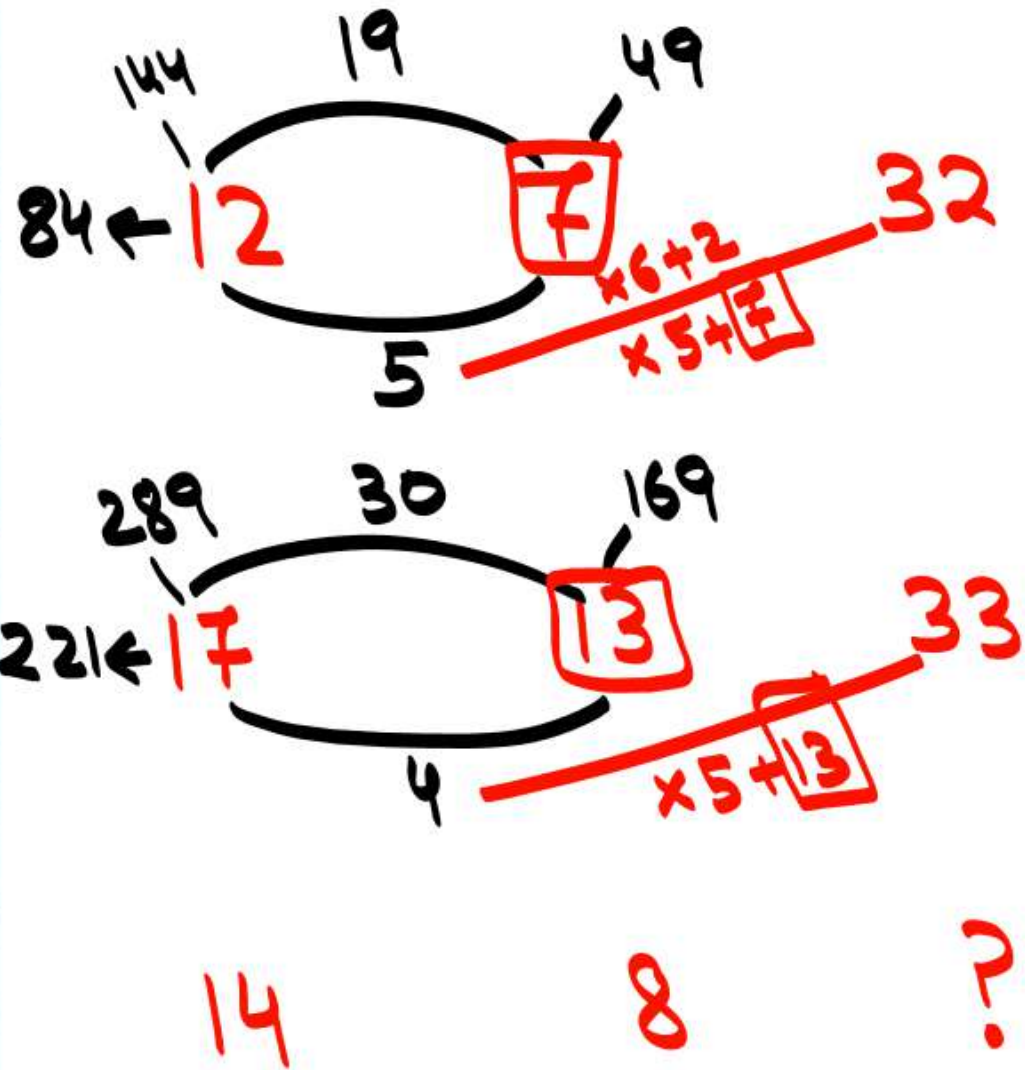
[B] 6

[D] 7

$$18 \times 3 \div 9 = 6$$

$$12 \div 4 \div (37 - 25) = 4$$

NTPC Mains



Study the given pattern carefully and select the number that can replace the question mark (?) in it.

दिए गए पैटर्न का ध्यानपूर्वक अध्ययन करें और उस संख्या का चयन करें जो उसमें प्रश्न चिह्न (?) को प्रतिस्थापित कर सके।

First row - 12, 7, 32

Second row - 17, 13, 33

Third row - 14, 8, ?

[A] 42

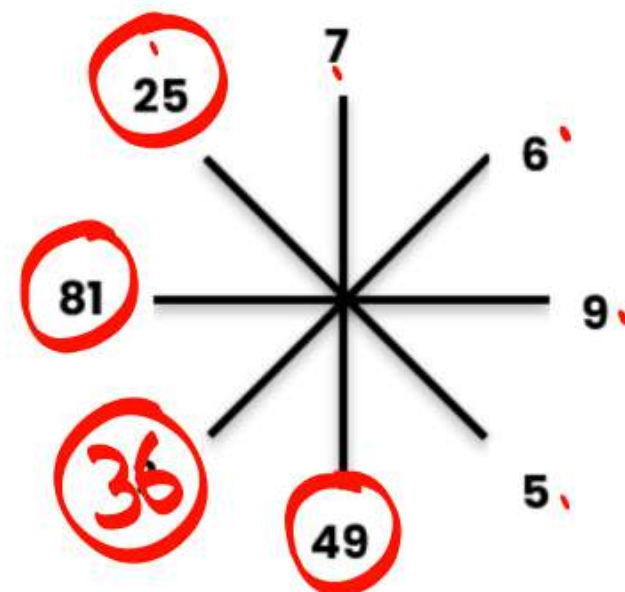
[C] 43

[B] 38

[D] 35

$$6 \times 5 + 8 = 30 + 8 = 38$$

$$\begin{array}{l} A, B, C \\ \hline 5(A-B) + B = C \end{array}$$



[A] 40

[B] 25

[C] 50

☒ [D] 36

The represents a set of calculations that are common across all the given equations. Identify the calculations involved and solve the third equation on the same basis:

यह गणनाओं के एक सेट का प्रतिनिधित्व करता है जो दिए गए सभी समीकरणों में सामान्य है। इसमें शामिल गणनाओं को पहचानें और उसी आधार पर तीसरे समीकरण को हल करें:

$$\begin{array}{lcl} 25 & \boxed{} & 36 = 5:6;11 \\ 100 & \boxed{} & 64 = 10;8;18 \\ 36 & \boxed{} & 81 = ?; ?; ? \end{array}$$

6 9 15

[A] 9;9;117

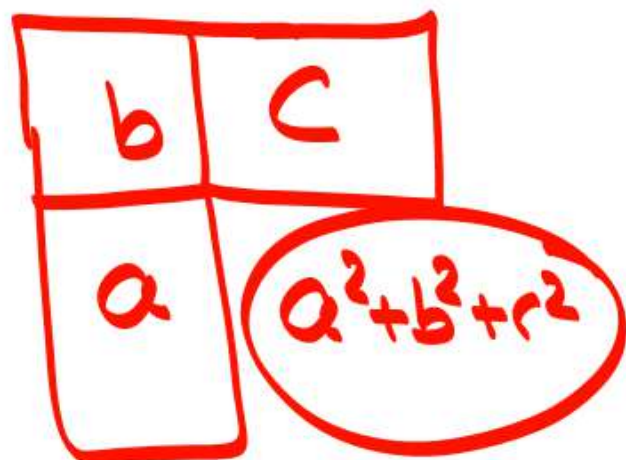
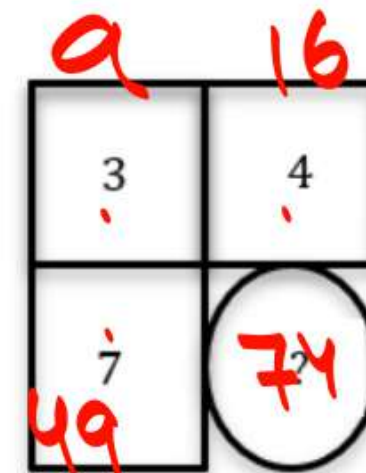
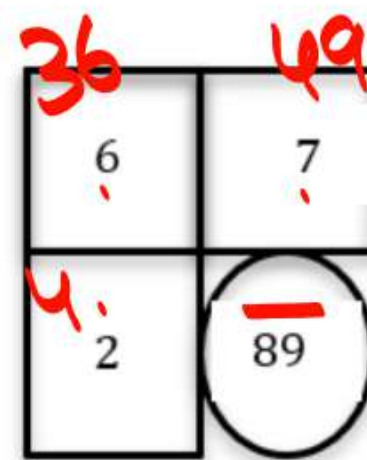
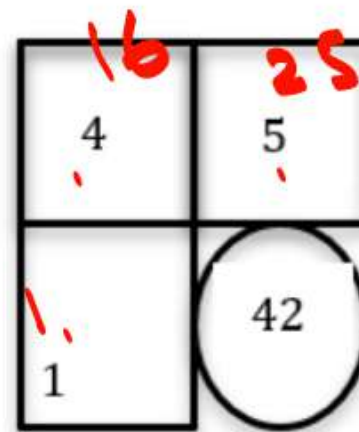
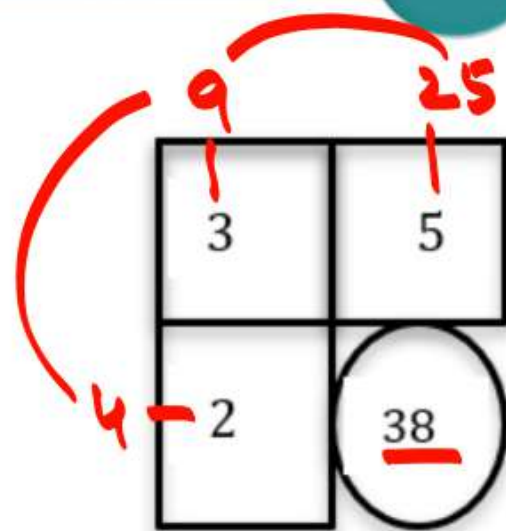
[C] 4; 11; 18

[B] 10; 6;4

✓ [D] 6; 9; 15

question

27



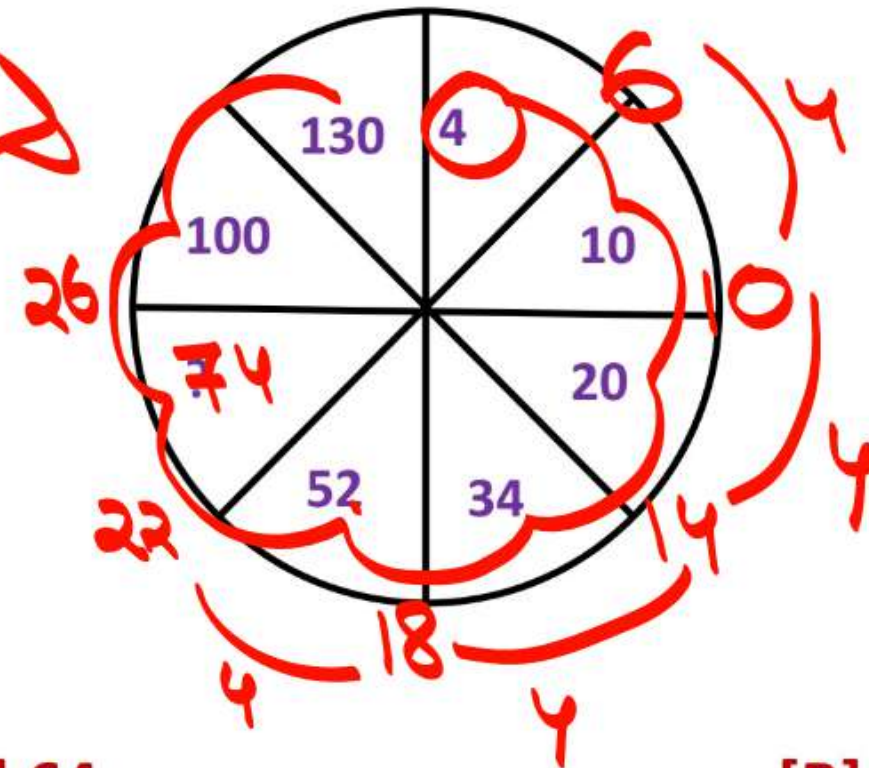
[A] 31

[C] 74

[B] 14

[D] 84

4, 10, 20, 34, 52, ?, 100, 130



[A] 64

[B] 96

[C] 82

✓ [D] 74

A B C

$$A(B-A+1) = C$$

$$A(B-A) + A = C$$

81
16
256

3	27	30	84	3 × 28
2	12	10	18	2 × 9
4		68	260	4 × 65

Handwritten annotations: A bracket above the first row is labeled '33'. A bracket below the first column is labeled '64'. A red circle highlights the value 27 in the first row, second column. A red circle highlights the value 12 in the second row, second column. A red circle highlights the value 68 in the third row, third column. A red circle highlights the value 260 in the third row, fourth column. A red checkmark is next to the value 68 in the third row, fifth column.

[A] 64

[B] 60

[C] 16

✓ [D] 68

A B C $\rightarrow$ D

$$A + B + C + 1 = D$$

16	3	4	9	<u>17</u>
14	7	2	5	15
17	6	8	3	18

☒ [A] 18

[B] 20

[C] 16

[D] 28

a

b

c

d

$$(a+b+c) + c = d \quad \times$$

$$a \times c + b = d \quad \checkmark$$

a

b

c

d

↓ ↓ ↓

3	4	7
6	4	2
3	2	5
15	12	?

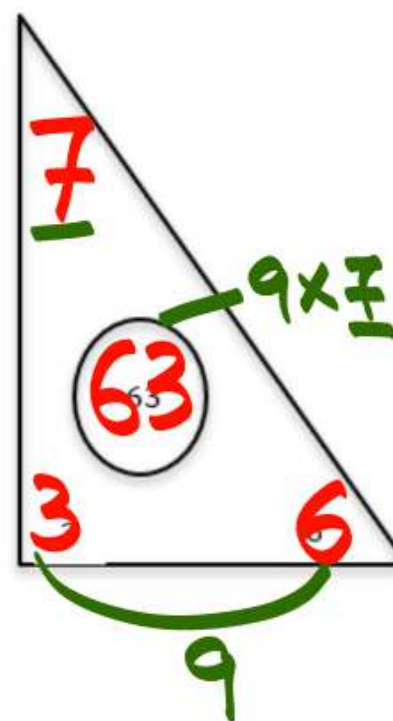
35
37

[A] 41

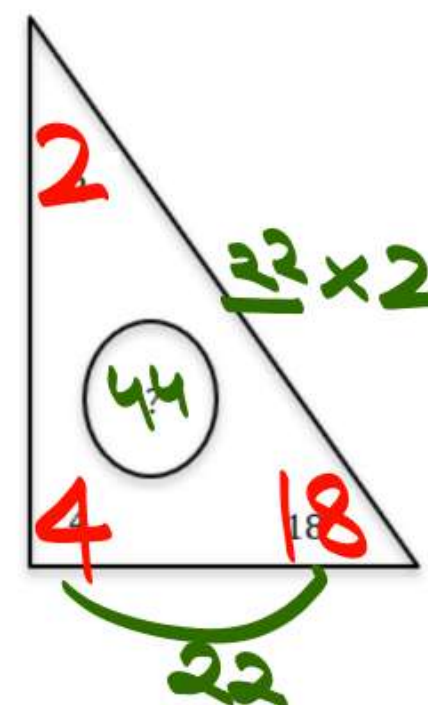
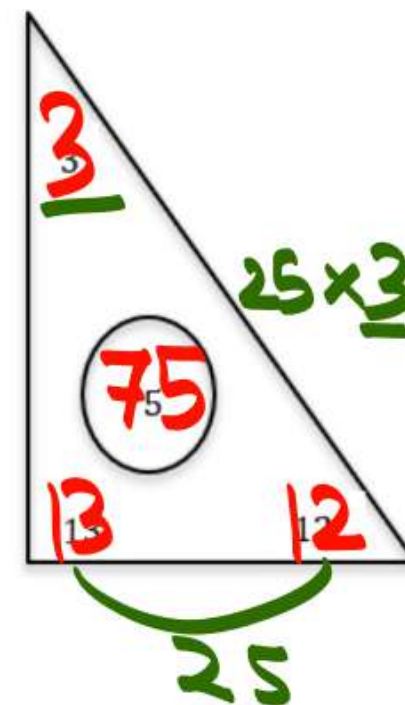
[B] 43

 $\checkmark$ [C] 37

[D] 31



[A] 144

☒ [C] 44

[B] 22

[D] 87

question

33

3

4

91

2

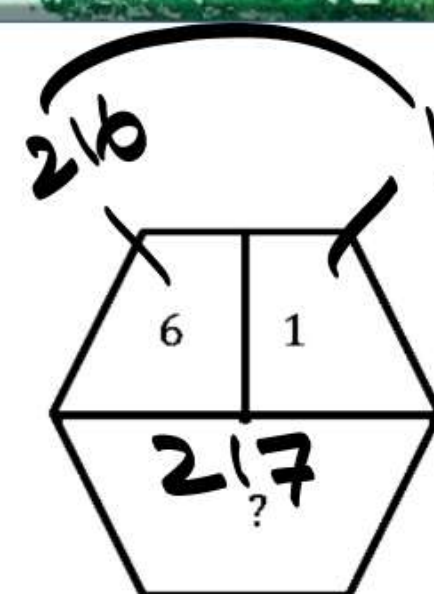
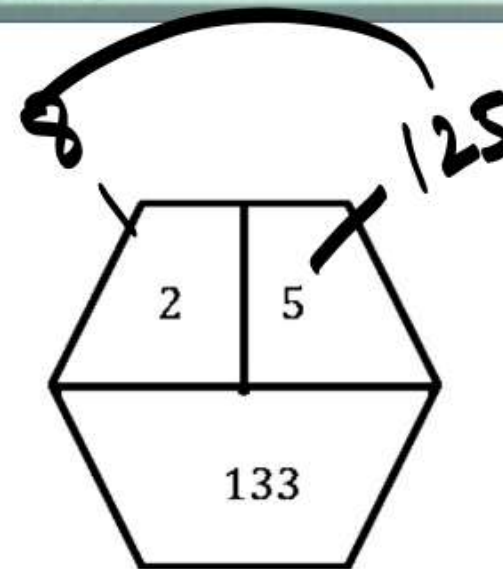
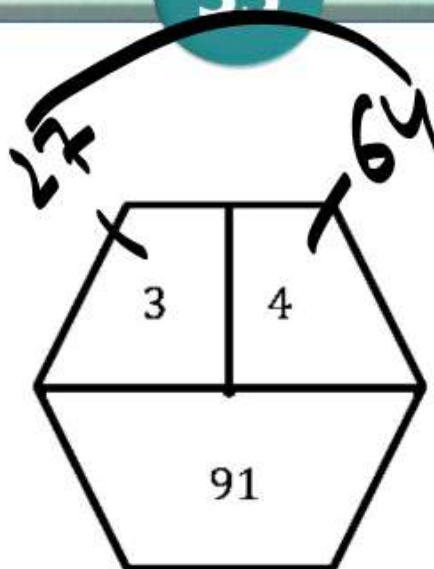
5

133

6

1

?



✓ [A] 217

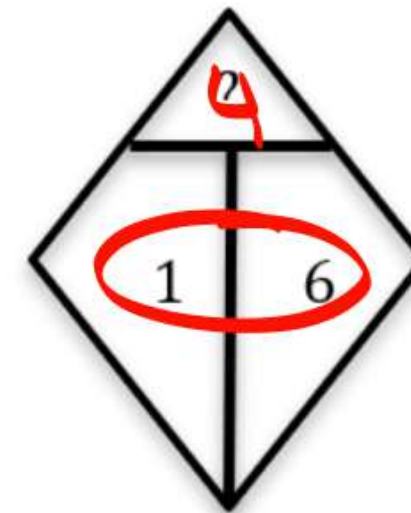
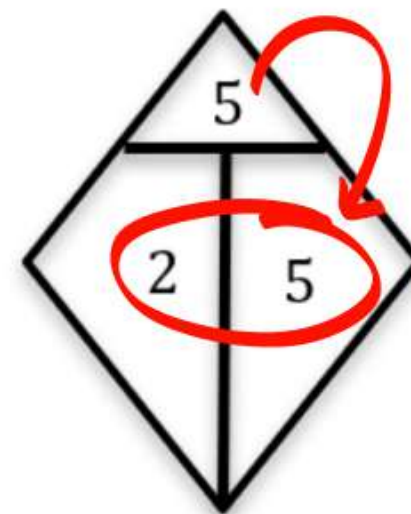
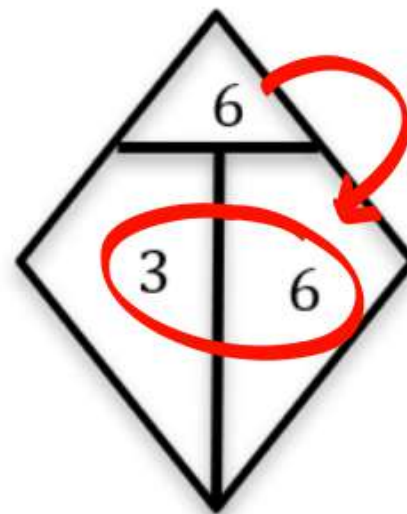
[C] 200

[B] 191

[D] 167



Number Reason



[A] 2

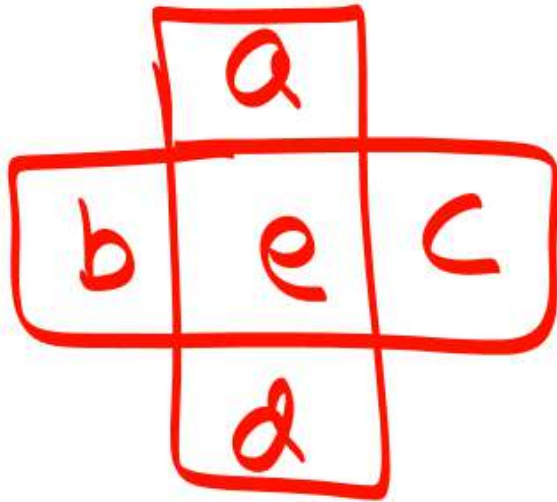
[B] 3

[C] 7

☒ [D] 4

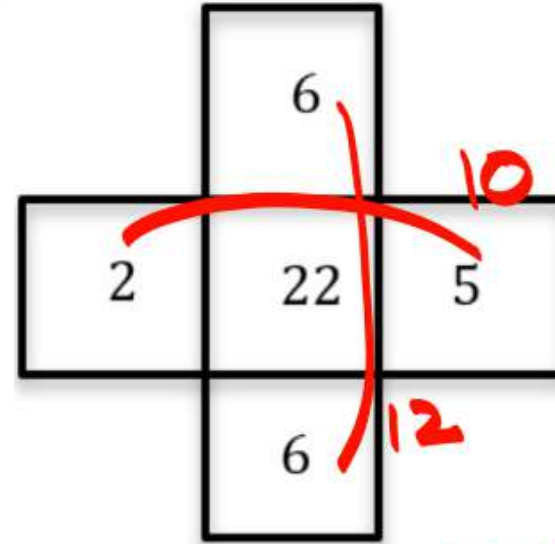
question

35



$$(b \times c) + (a + d) = e$$

Sum 19

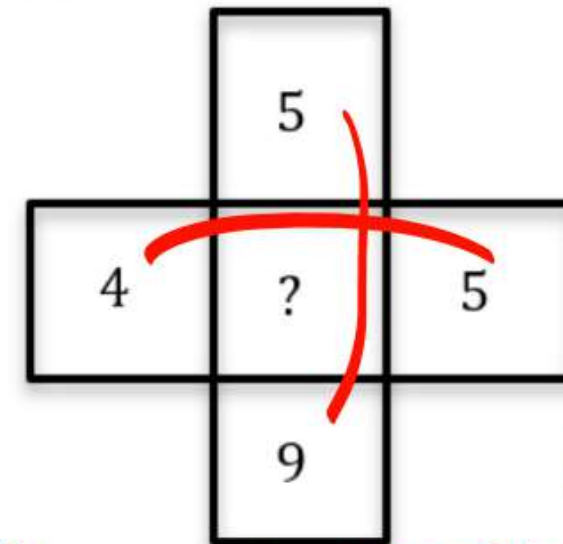


$$10 + 12 = 22$$

[A] 22

[C] 34

Sum 23



$$14 + 20 = 34$$

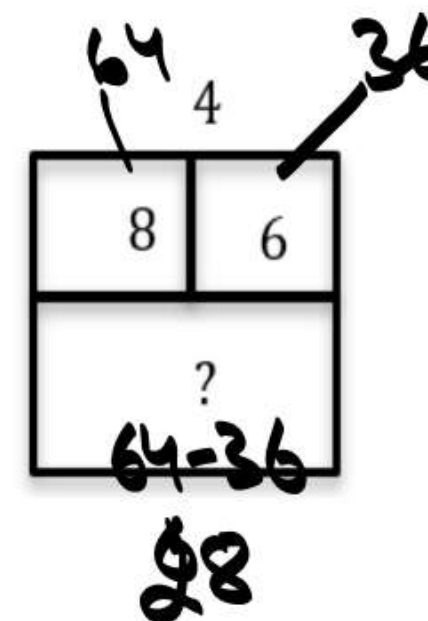
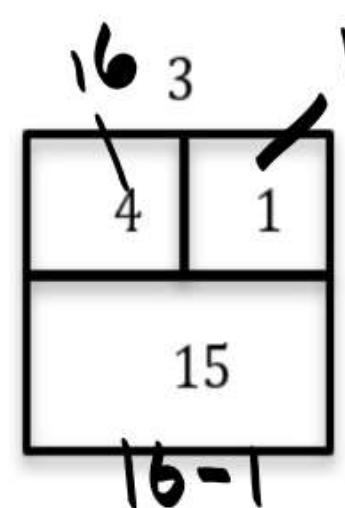
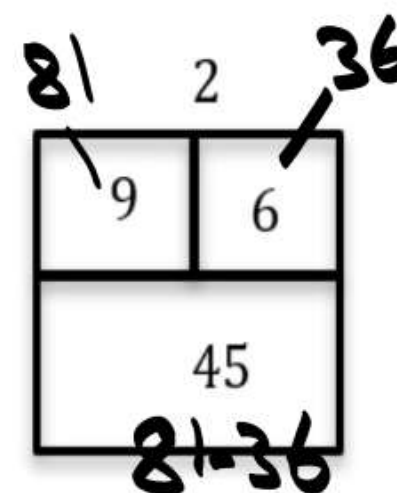
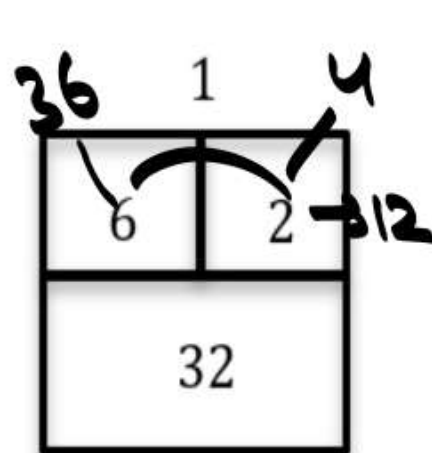
[B] 5

[D] 24

~~12^x~~ ~~36^x~~

question

36



[A] 48

[B] 14

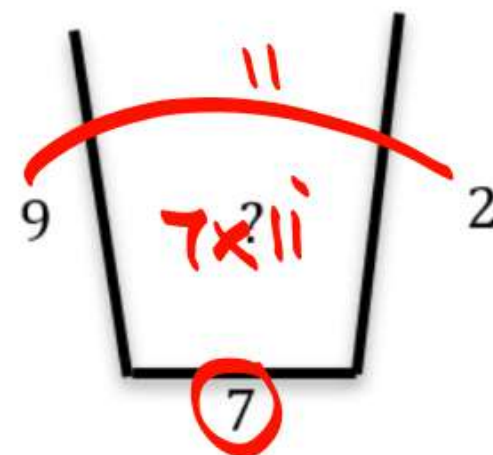
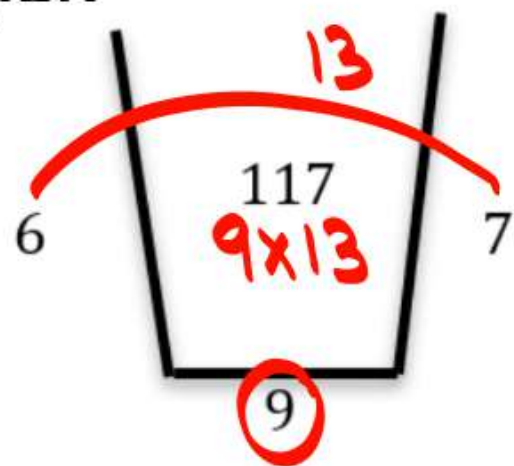
☒ [C] 28

[D] 2



Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.

दिए गए पैटर्न का ध्यानपूर्वक अध्ययन करें और दिए गए विकल्पों में से उस संख्या का चयन करें जो इसमें प्रश्न चिह्न (?) को प्रतिस्थापित कर सके।

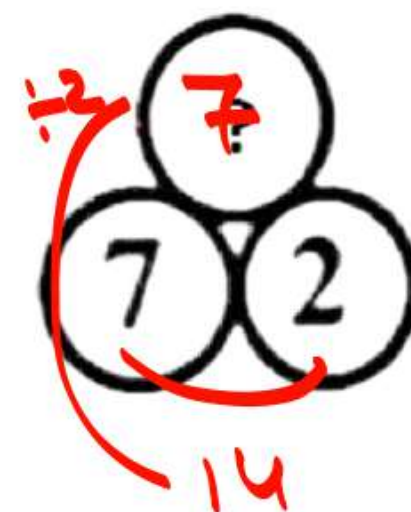
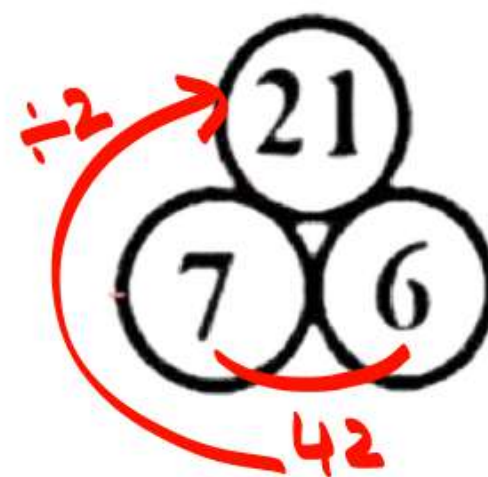


[A] 520

[B] 250

☒ [C] 77

[D] 126



[A] 9

[C] 31

✓ [B] 7

[D] 14

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

दिए गए पैटर्न का ध्यानपूर्वक अध्ययन करें और उस संख्या का चयन करें जो इसमें प्रश्न चिह्न (?) को प्रतिस्थापित कर सके।

$$\begin{matrix} a & b & c & d \\ a+b & = & c+d \end{matrix}$$

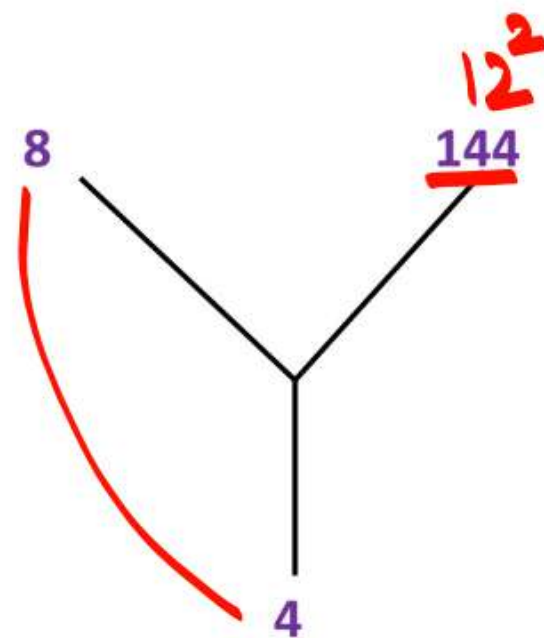
15	10	5	20
27	11	8	30
45	10	15	?

[A] 10

☒ [C] 40

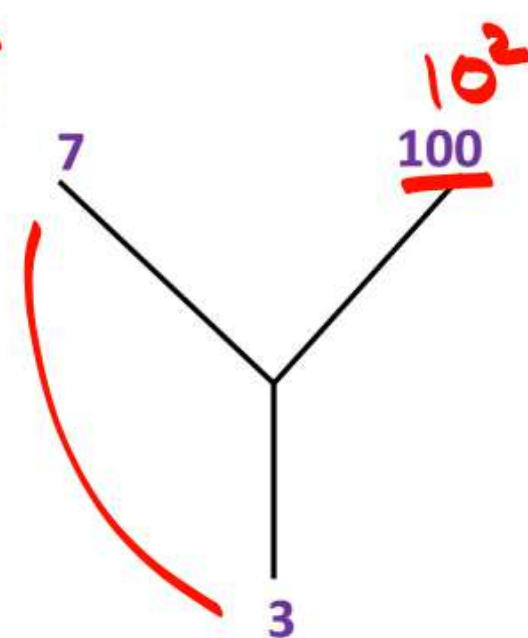
[B] 20

[D] 30



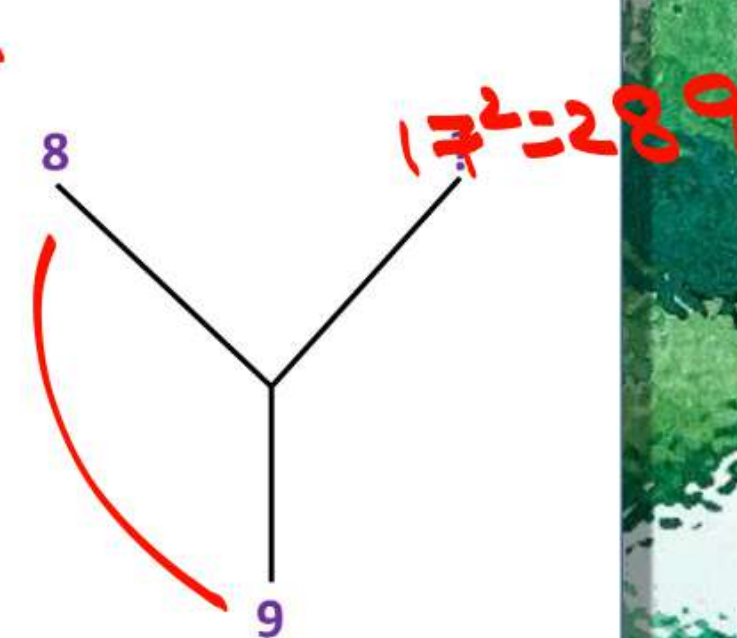
☒ [A] 289

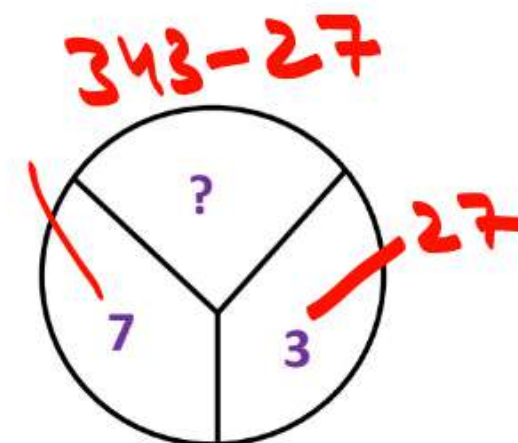
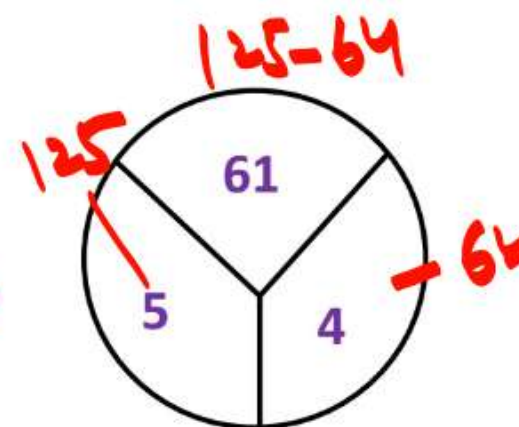
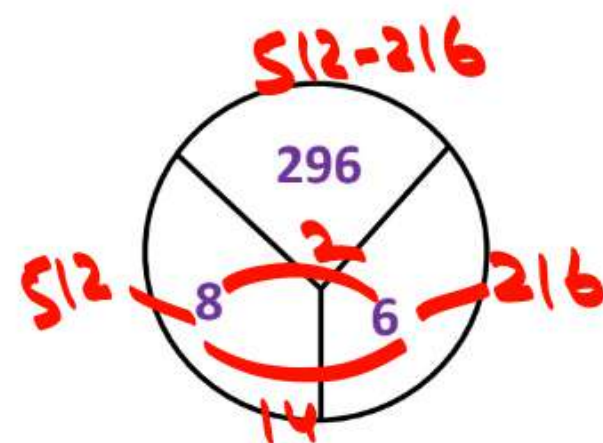
[C] 64



[B] 216

[D] 125



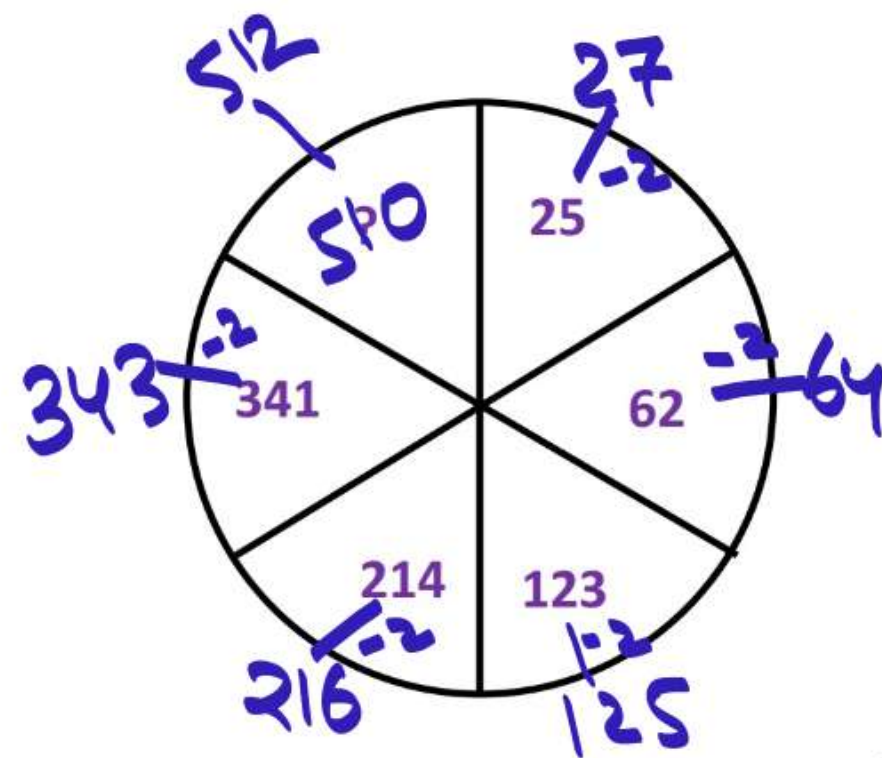


[A] 370

[C] 343

✓ [B] 316

[D] 272

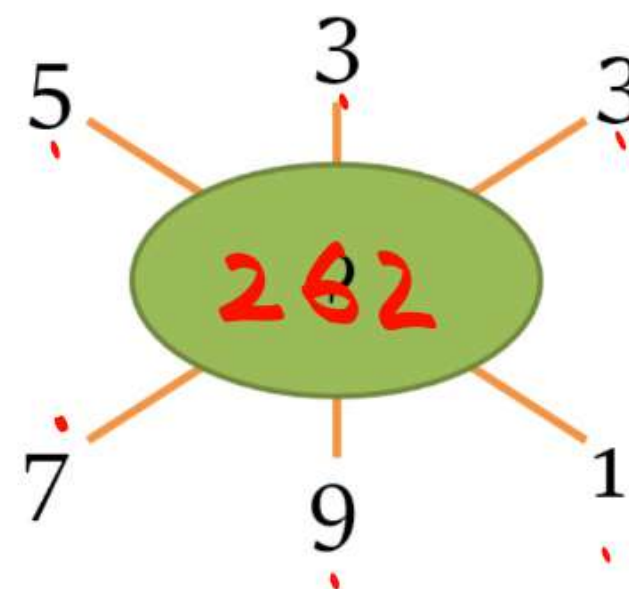
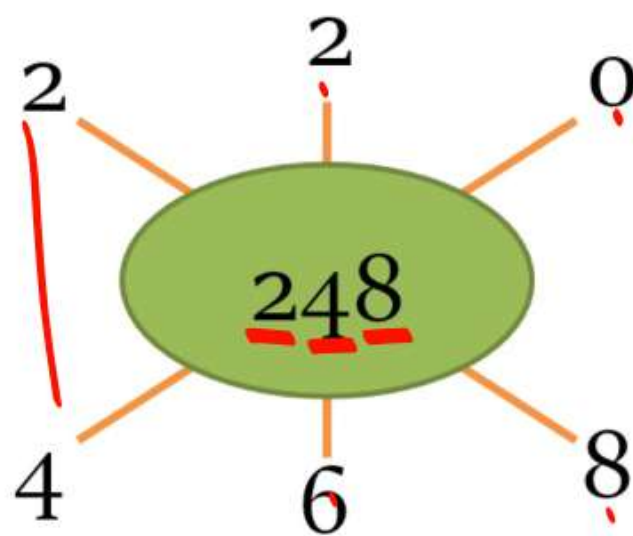
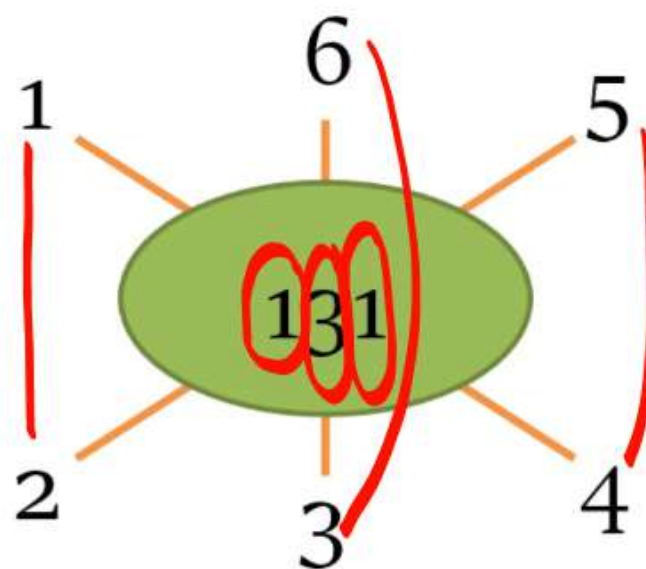


[A] 512

✓ [B] 510

[C] 514

[D] 216



✓ [A] 262

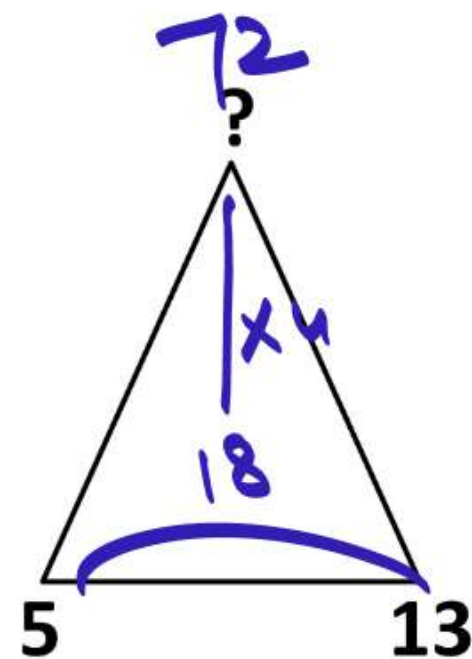
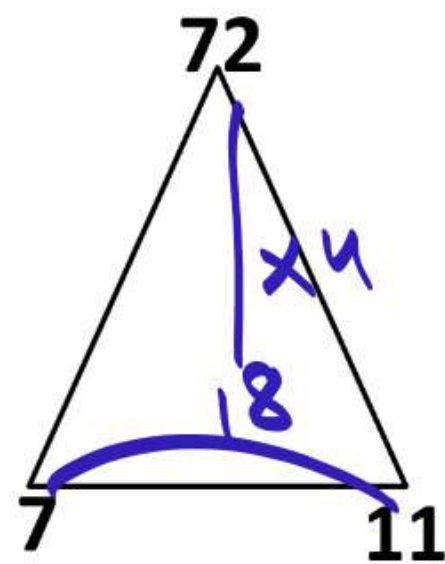
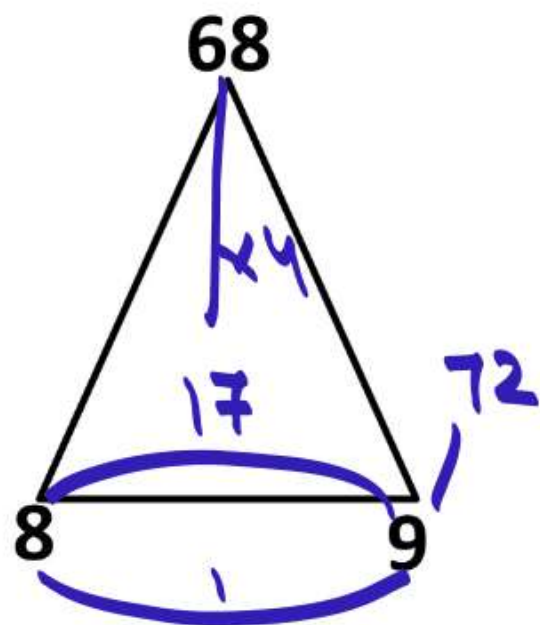
[C] 216

[B] 324

[D] 224

question

44



[A] 70

☒ [C] 72

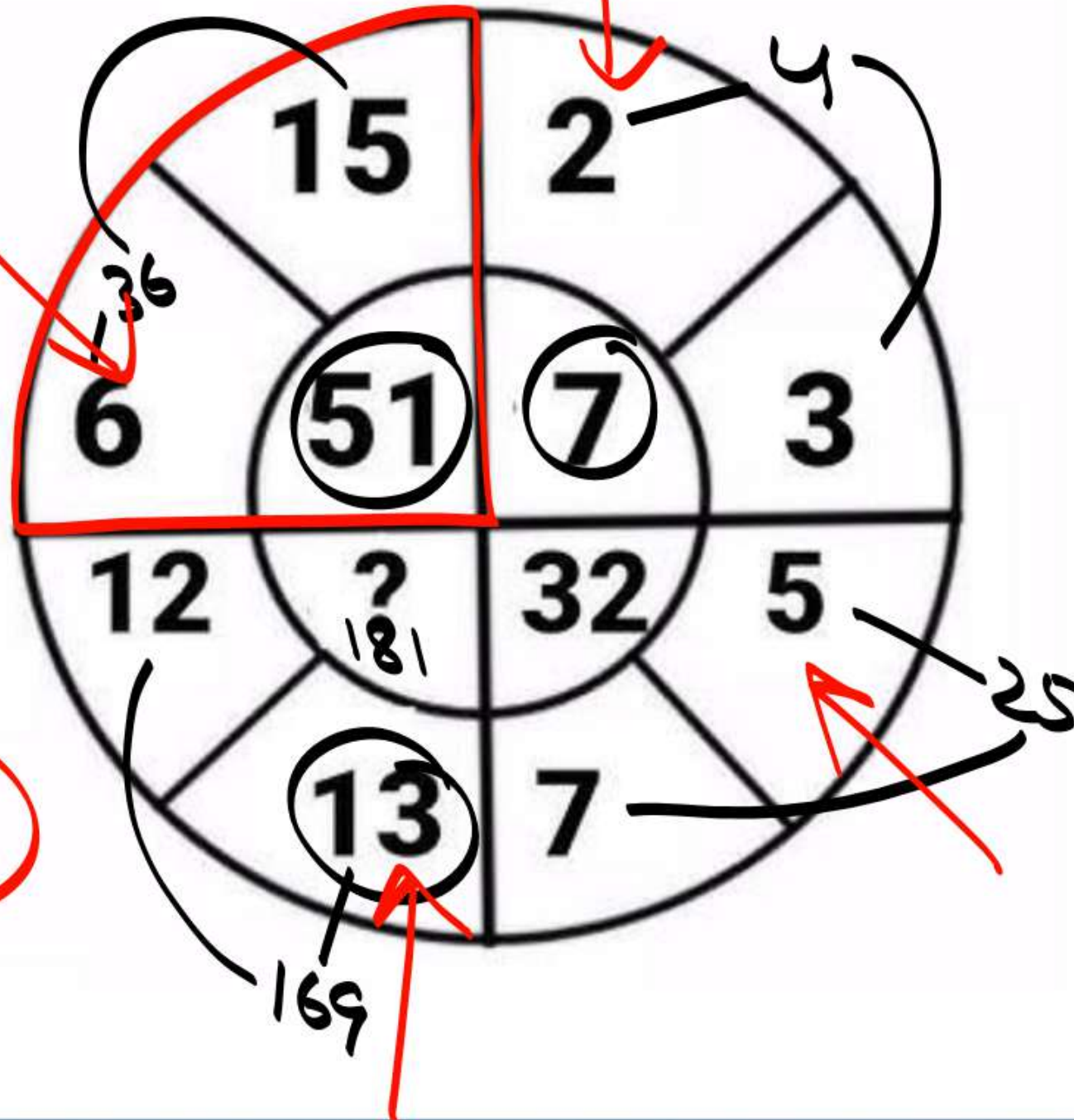
[B] 90

[D] 100



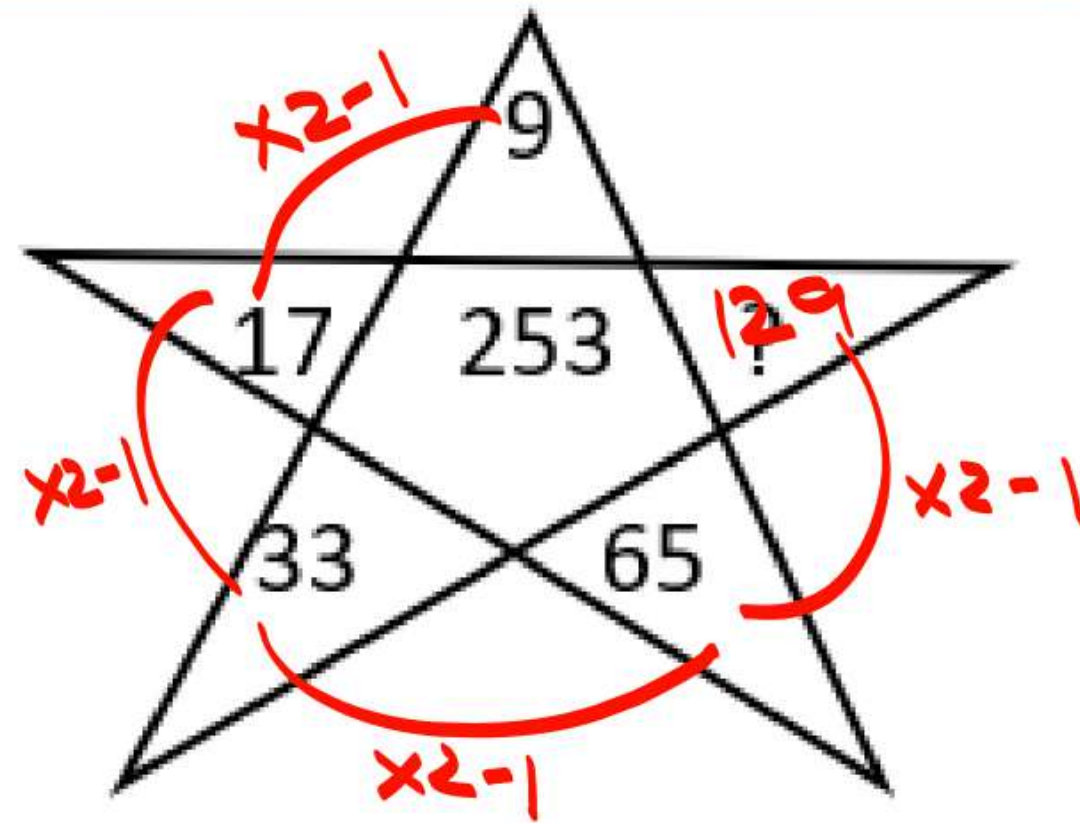
$$\begin{array}{c} 66 \\ \hline (6, 15, 51) \\ \hline \rightarrow 36 \end{array}$$

$12^2 + 13$
 $144 + 13 = 157$



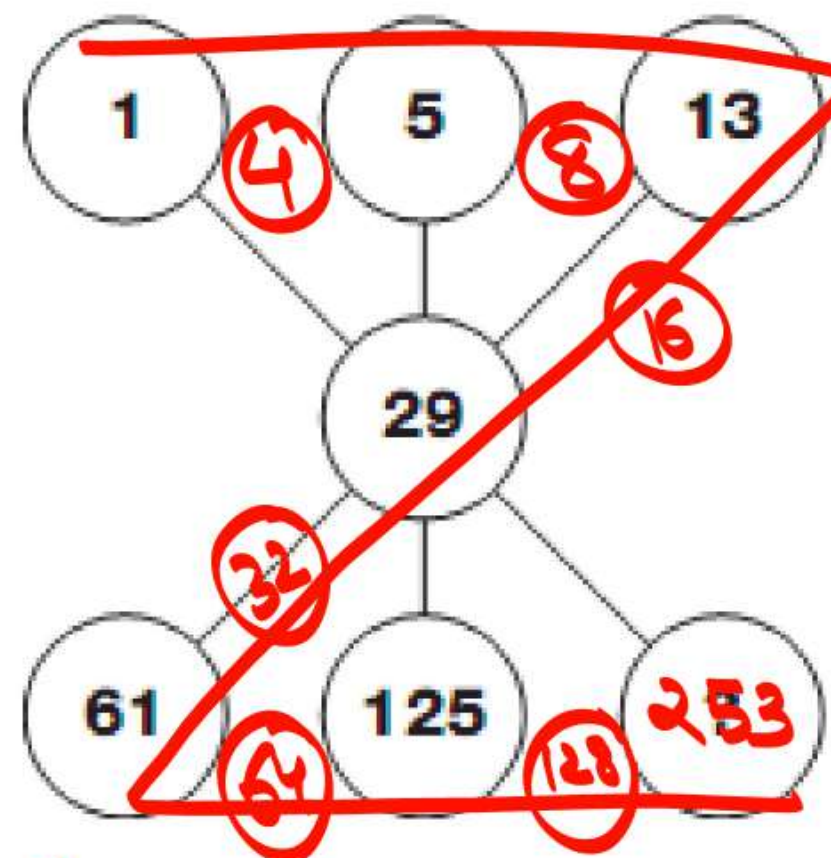
- (1) 156
(2) 158
(3) 157
~~(4) 181~~

9, 17, 33, 65, ?



- A) 103
- ☒ b) 129
- c) 156
- d) 98

Which number replaces the question mark?



☒ [A] 253

[B] 690

[C] 721

[D] 132

Which number replaces the question mark?

10	
8	13
16	6
4	19
22	2

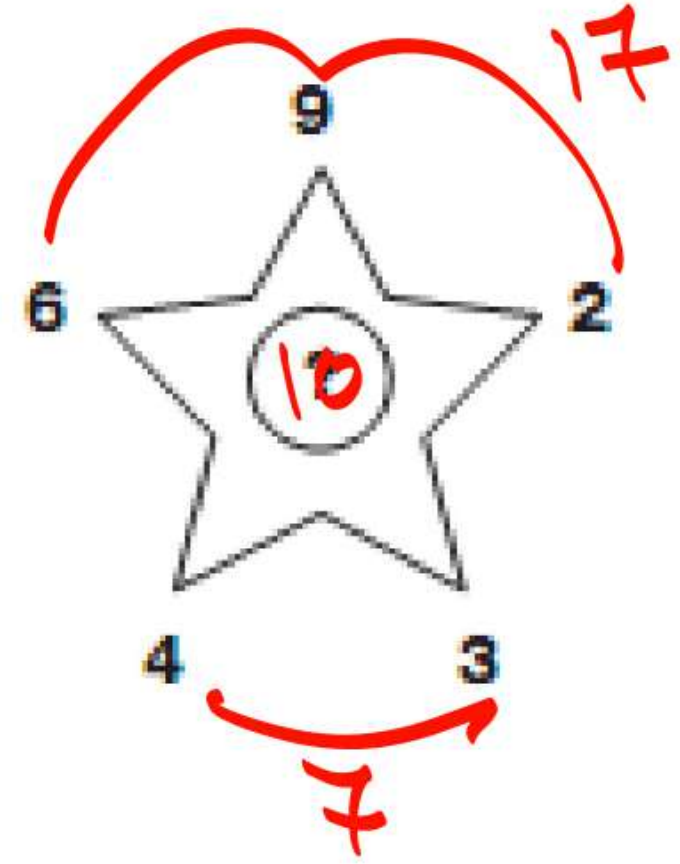
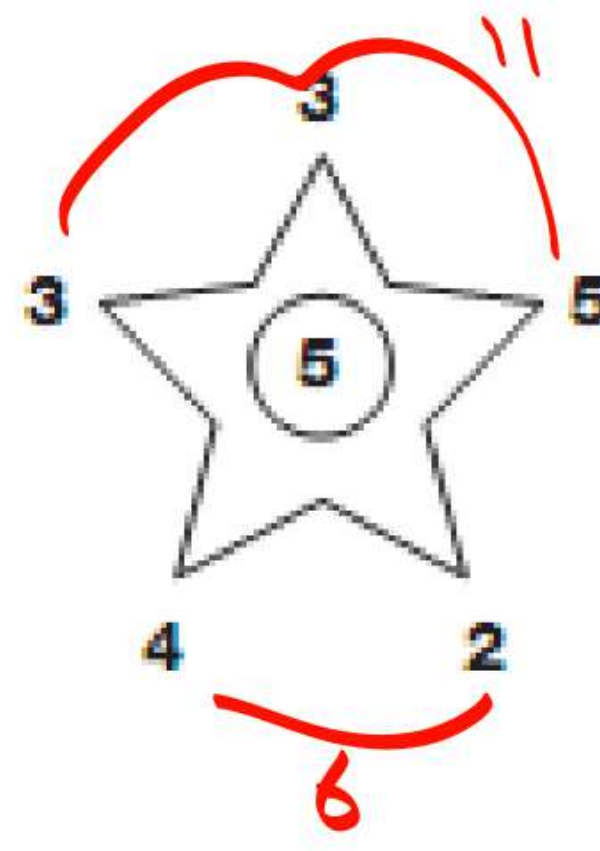
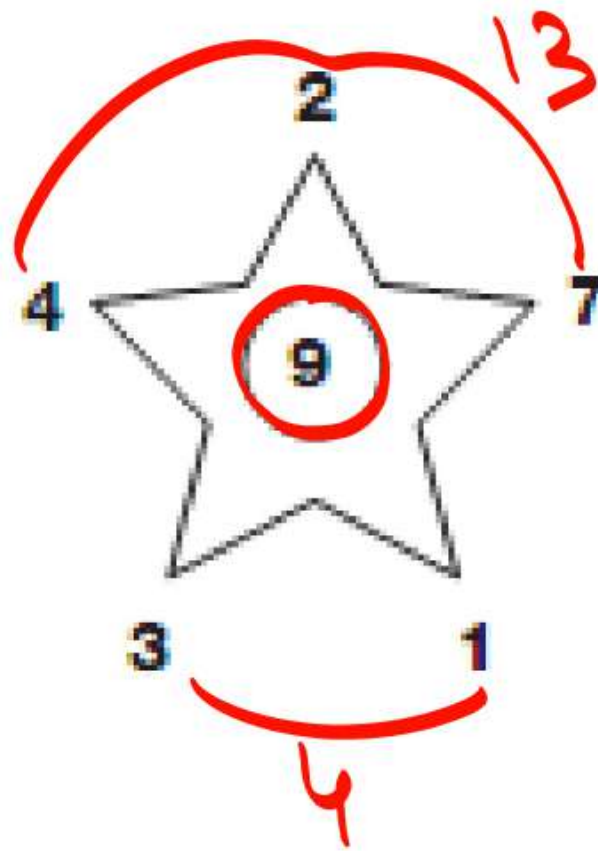
[A] 7

[C] 72

☒ [B] 2

[D] 10

Which number replaces the question mark?



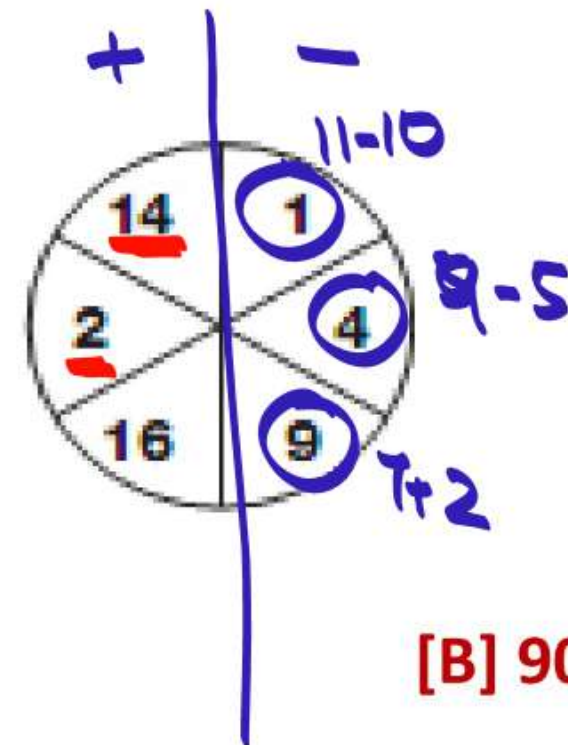
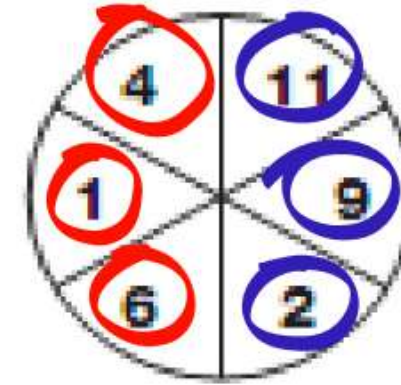
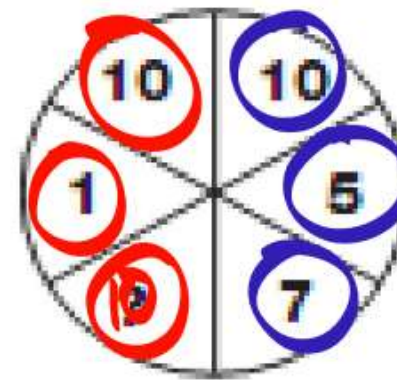
[A] 70

[B] 90

[C] 72

[D] 10

Which number replaces the question mark?



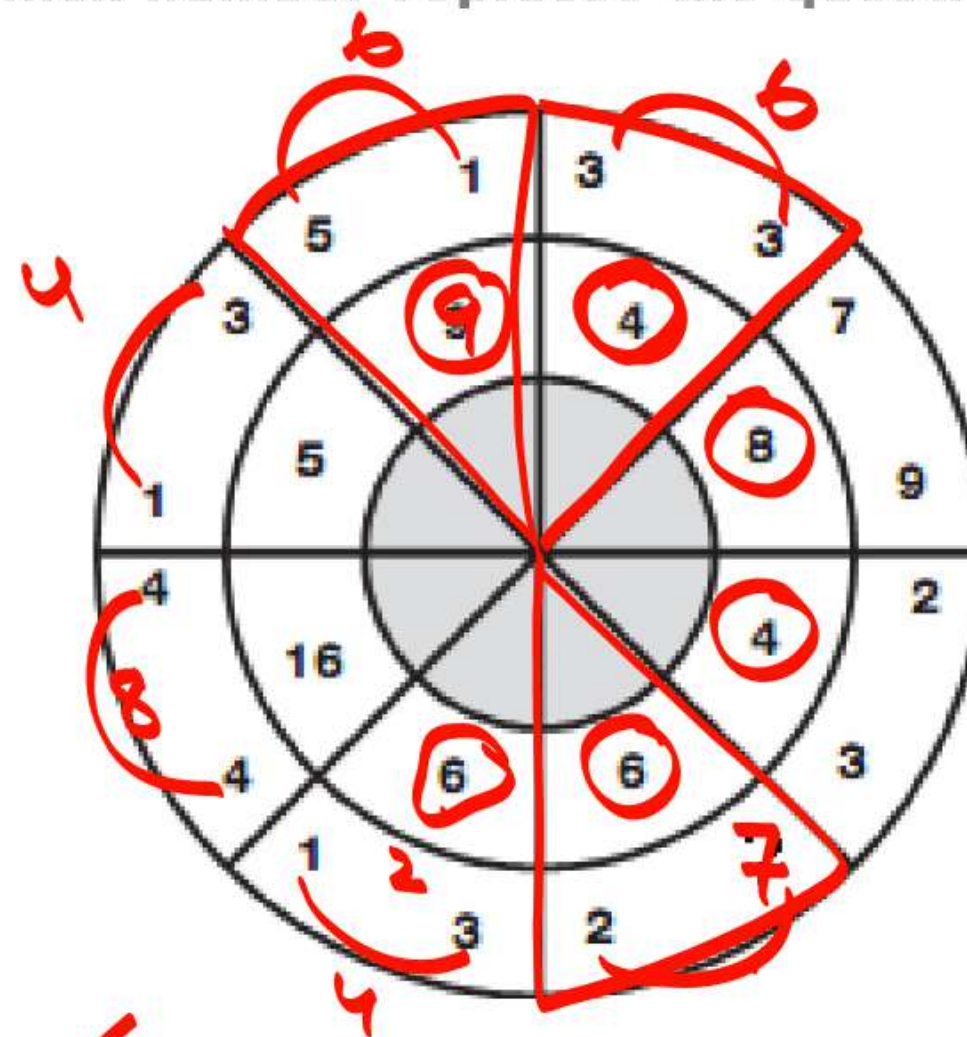
[A] 10

[B] 90

[C] 12

☒ [D] 10

Which number replaces the question mark?



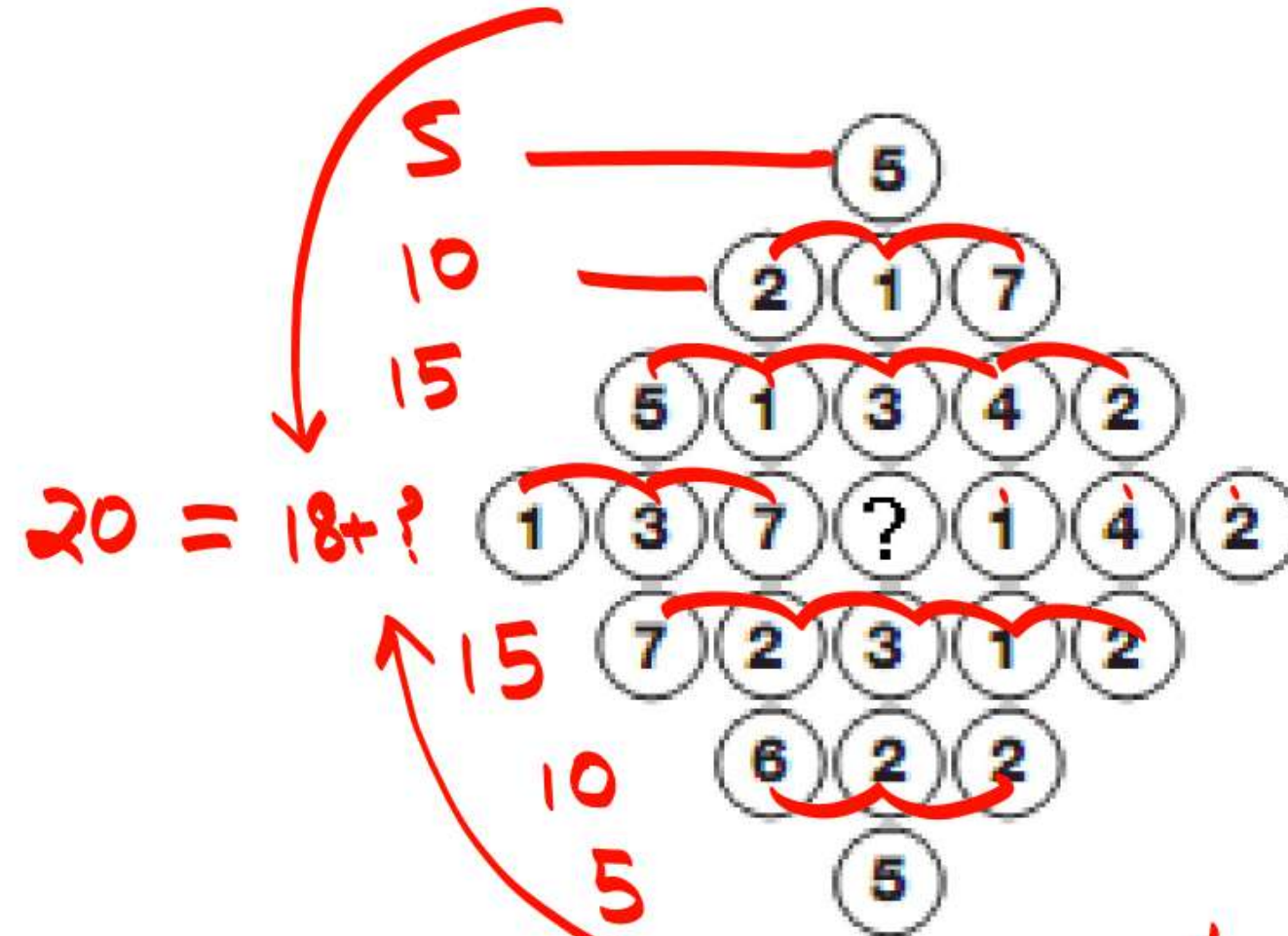
☒ [A] 7

[B] 9

[C] 6

[D] 10

Which number replaces the question mark?



[A] 1

✓ [B] 2

[C] 9

[D] 8



Which shape complete the puzzle?

10 अंक

5	3	6	4	8	1	9	7	2	0
5	1	0	2	9	4	7	3	8	6
3	8	1	6	0	2	9	5	7	4
6	7	3	9	2	4	8	0	1	5
3	7	4					8	2	9
2	9	1					4	6	3
0	8	3	7	9	2	5	1	6	4
7	0	2	4	1	6	3	9	8	5
0	8	1	5	2	4	3	7	9	6
2	6	8	1	3	5	0	9	4	7

1			
4		2	
6	5	1	0
7	8	6	5
6		2	

2			
3		5	
6	0	5	1
5	2	7	8
4		9	

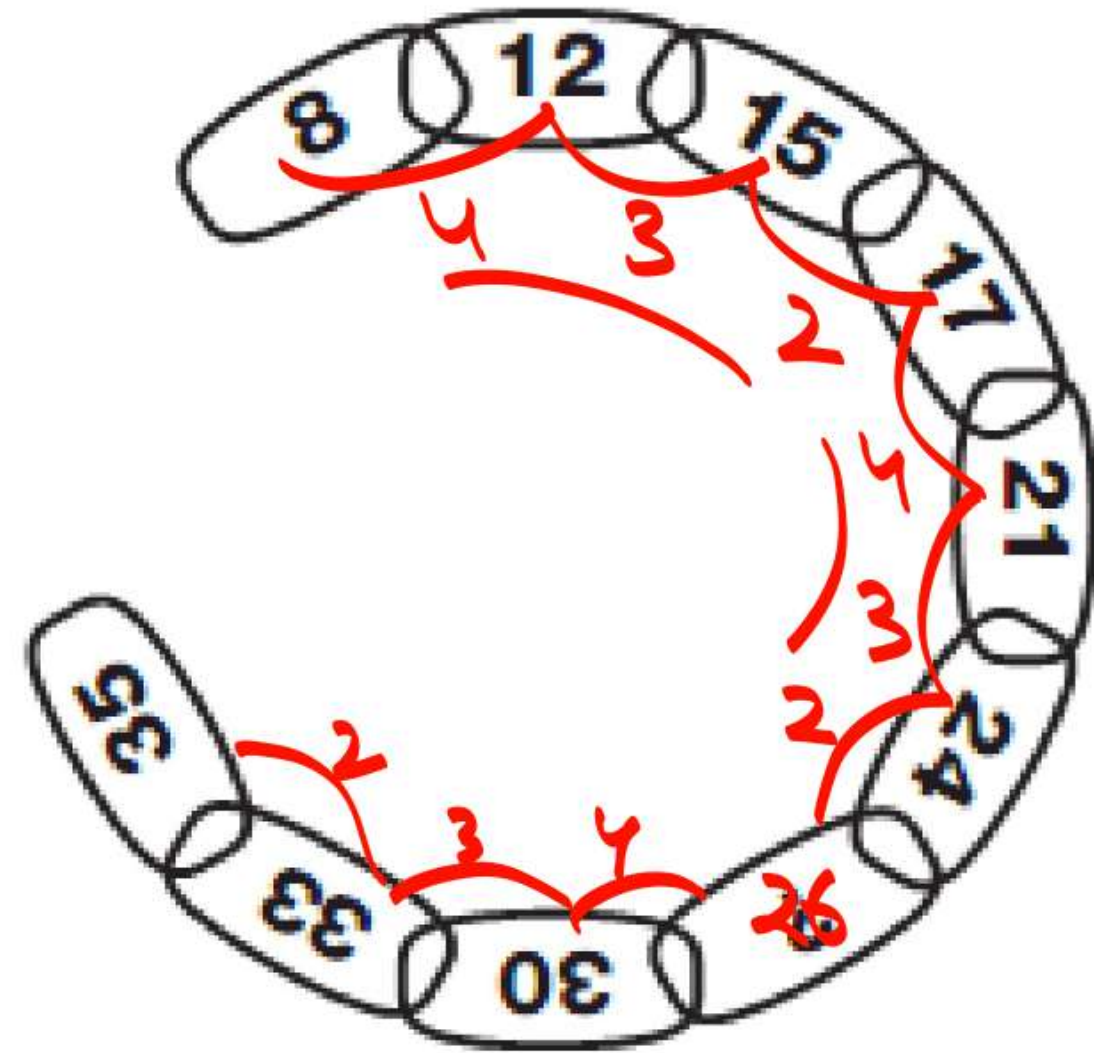
		3		
		3	5	
6	0	1	5	
5	2	7	8	
		9	1	

4 ✓

	2	4	
6	0	5	1
5	0	7	8
	9	2	

	5		
	2	4	
5	1	6	1
7	8	5	1
	9	2	

Which number replaces the question mark?

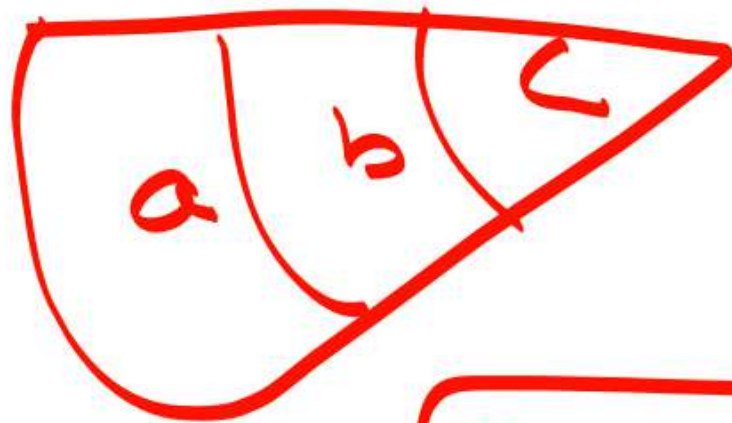


☒ [A] 26

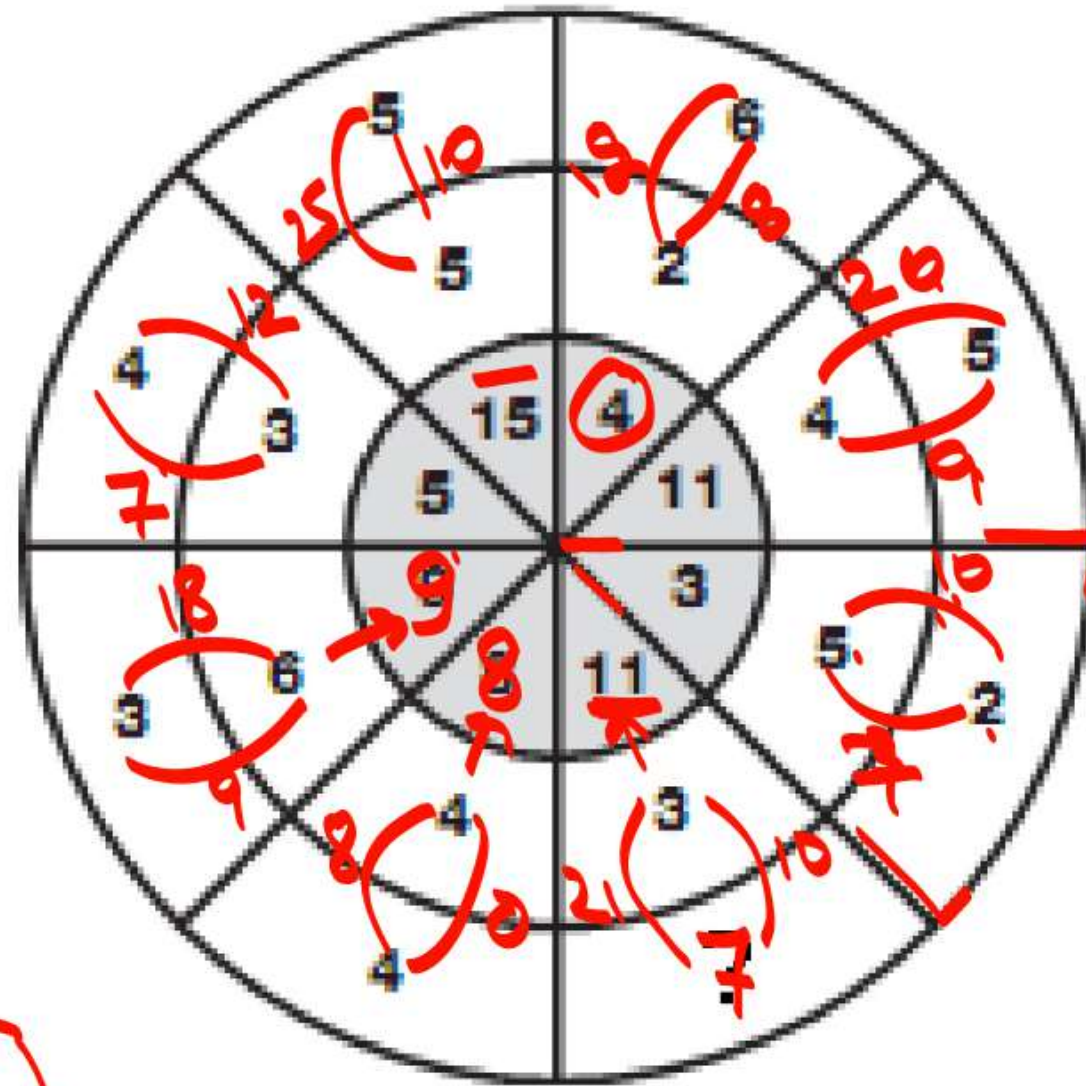
[B] 29

[C] 27

[D] 28



$$a \times b - (a + b) = c$$



[A] 8

[B] 9

☒ [C] 7

[D] 10