

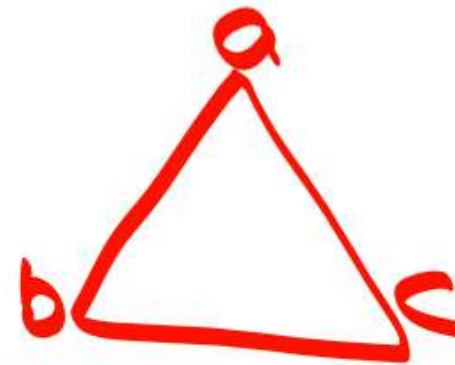
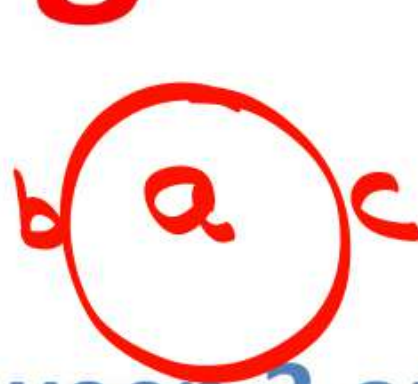
Relation betn Numbers



Missing Number

(a, b, c)

$a - b - c$



Relation Between 3 or more number

❖ MORE THAN 3 NUMBERS ✓

□ (A, B, C, D, E) ✓ से + से

□ A - B - C - D ✓

□ A : B : C : D ✓

Ex.

$$7 \times 3 + 5 - 11 = 15$$

$$21 + 5 - 11 = 15 \checkmark$$

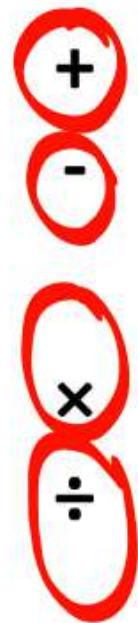
A^2



A



A^3



B^2



B



B^3



C^2



C



C^3



D^2



D



D^3

= E

question

1

✓ 13 108
11

12×9

26 55
9

11×5

196 157
14

39

[A] 32

[C] 72

✓ [B] 39

[D] 52

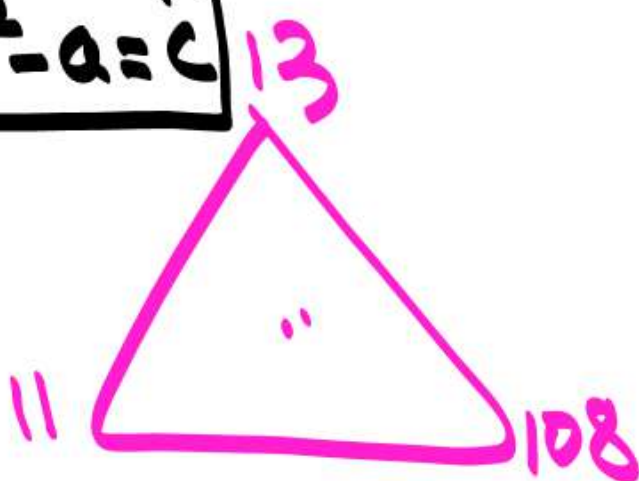
$\sqrt{a+c} = b$

$a+c = b^2$

✓ (13, 11, 108)

121

$b^2 - a = c$



✓ 13 - 11 - 108

✓ 13, 11, 108 ✓

✓ 13; 11 = 108

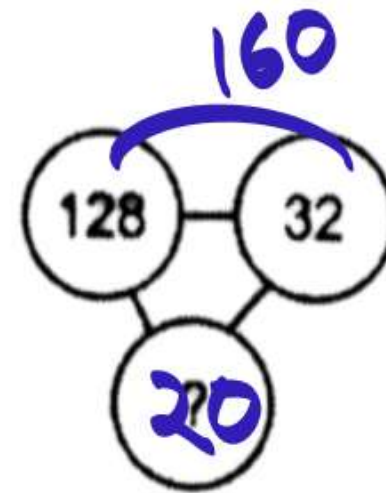
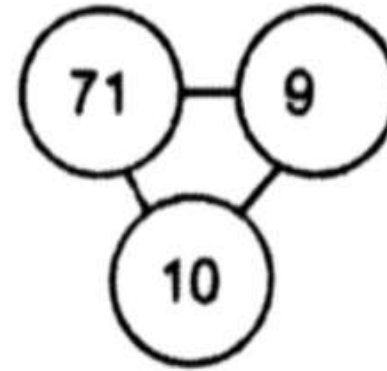
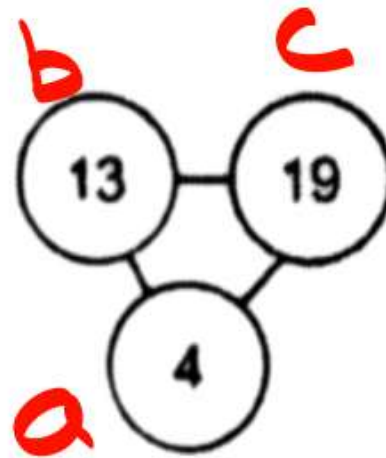
13	108	11
----	-----	----

13 108 11

question

2

$$8a = (b+c)$$



[A] 16

[B] 26

[C] 12

✓ [D] 20

$$(4, 13, 19) \quad \begin{array}{r} \times 8 \\ \hline 32 \end{array}$$

Diagram showing the calculation for the first triangle: $(4, 13, 19)$. A red arc connects 13 and 19, and a red line with $\times 8$ above it points to 32.

$$(10, 71, 9) \quad \begin{array}{r} \times 8 \\ \hline 80 \end{array}$$

Diagram showing the calculation for the second triangle: $(10, 71, 9)$. A red arc connects 71 and 9, and a red line with $\times 8$ above it points to 80.

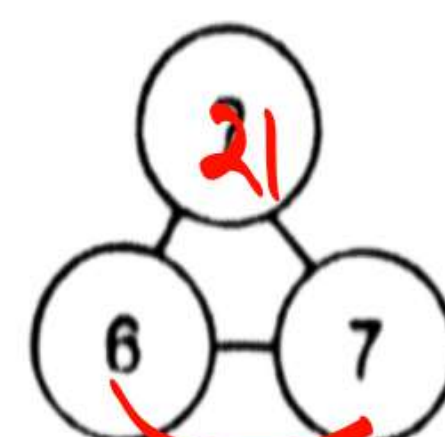
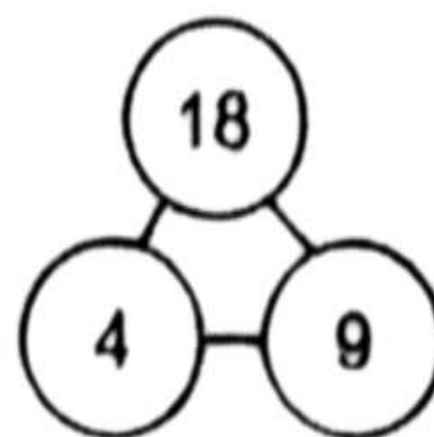
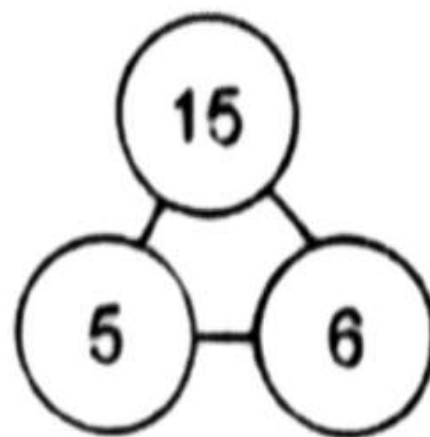
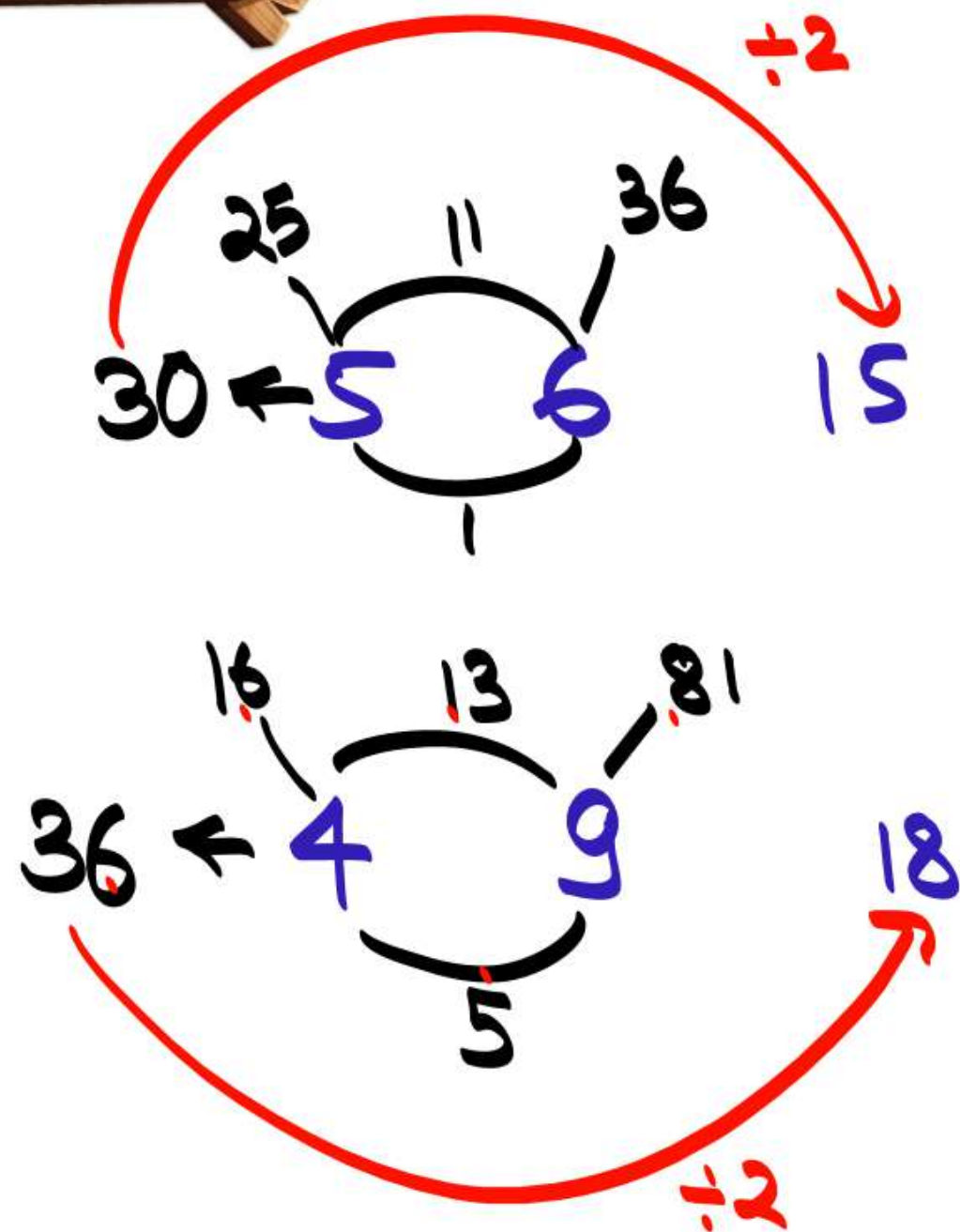
$$(?, 128, 32)$$

Diagram showing the calculation for the third triangle: $(?, 128, 32)$.



question

3



[A] 15

[C] 22

✓ [B] 21

[D] 23

question

4

$$a \times b = c + d \rightarrow a \times b - c = d$$

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

$$a \div b = c - d$$

$$a \div b = c + d$$

$$a \times b = \frac{c}{d}$$

46	12	30	28
32	16	18	30
54	10	29	35

Handwritten annotations on the table:

- Red arrows point to the first column (46, 32, 54), the second column (12, 16, 10), and the third column (30, 16, 29).
- Red arcs above the first and third rows connect the first and second columns, with the value 58 written above each arc.
- A red arc above the second and third columns connects the values 16 and 29, with the value 48 written above the arc.
- The value 18 in the second row, third column is circled in red.
- Below the table, the letters a, b, c, and d are written in red, corresponding to the columns.

[A] 20

[C] 22

☒ [B] 18

[D] 16

$$\underline{a + b = c + d}$$

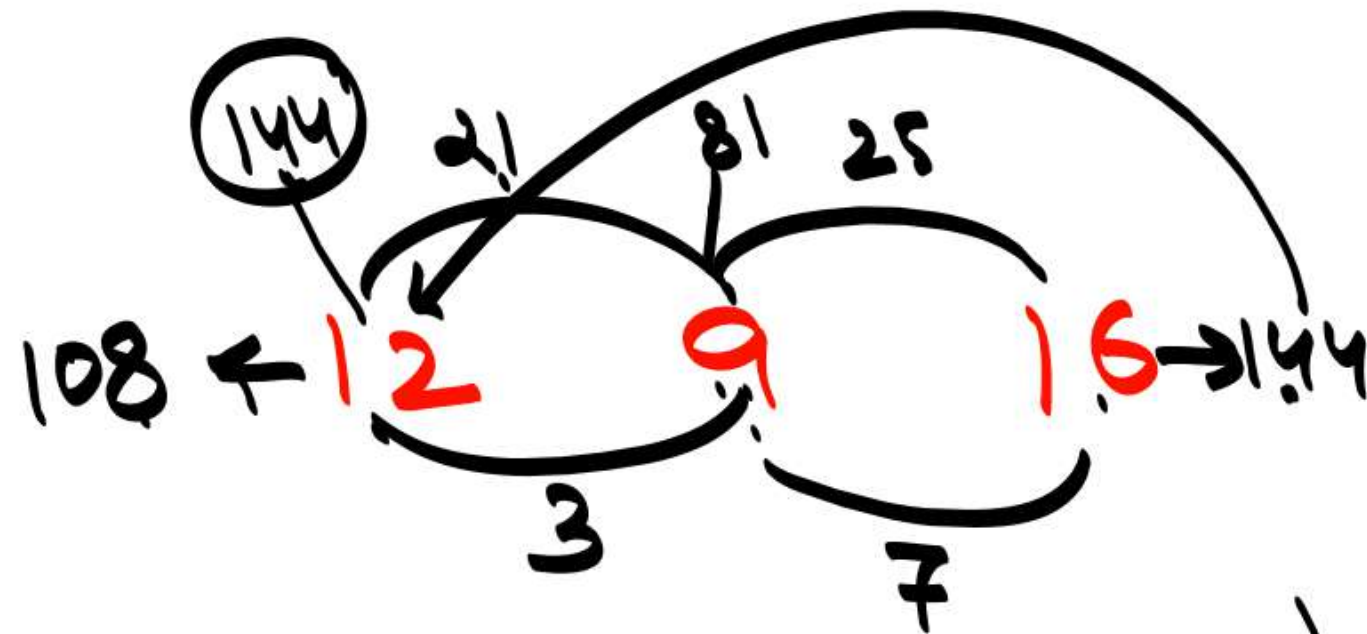
question

5

MATRIX

12	9	16
9	3	27
14	7	28

Handwritten annotations on the matrix:
 - Red diagonal line from 12 to 3 to 7.
 - Red numbers 144 above the first row, 81 above the second row, and 196 below the third row.
 - A bracket under the third row with the number 196 below it.



[A] 8

[B] 9

[C] 7

[D] 11

$$a^2 = b \times c$$

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

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

B का मान ज्ञात कीजिये ?

Series →

7	21	84	420
15	45	A	B

→

Handwritten red annotations:
Row 1: 7 to 21 (x3), 21 to 84 (x4), 84 to 420 (x5)
Row 2: 15 to 45 (x3), 45 to A (x4), A to B (x5). The value 180 is written above A, and 900 is written above B.

[A] 720

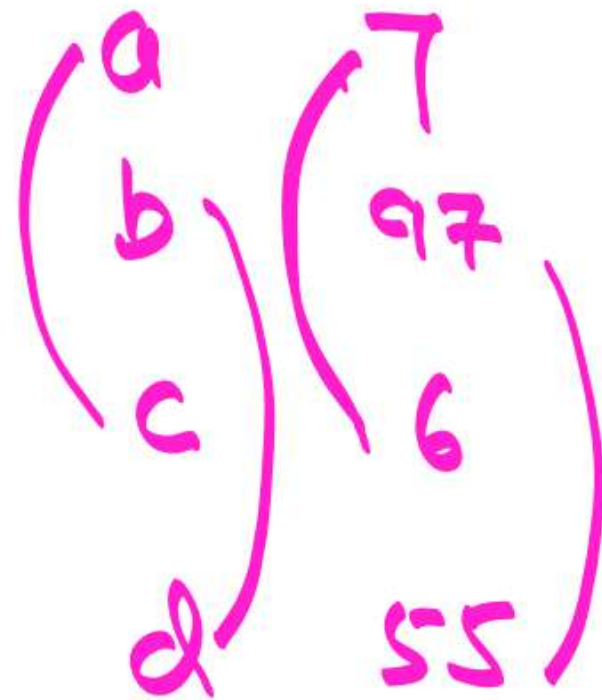
[B] 850

✓ [C] 900

[D] 950

question

7



$$7 \times 6 = 97 - 55$$

42 42

LHS = RHS

$$a \times c = b - d$$

[A] 2 ✓
[C] 4

$$7 \times 6 + 55 = 97$$

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

7	9	8
97	73	64
6	7	?
55	10	48

$$8(2) + 48 = 64$$

$$63 + 10 = 73$$

[B] 5
[D] 3

1 = नालायक संख्या

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

1², 4, 9, 16, 25, 36

1³, 8, 27, 64, 125, 216

$$7^2 - 3 = 46$$

$$7^2 - 3^2 = 40$$

$$7^2 - 3^3 = 22$$

✓ [A] 11

[C] 12

4	$4^2 - 1$ (15)	1 ³
7	(22)	3 ³
?	(57)	4

$$4^2 - 1$$

$$4^2 - 1^2$$

$$4^2 - 1^3$$

$$4^3 - 1^4$$

$$()^2 - 64 = 57$$

$$()^2 = 121$$

[B] 16

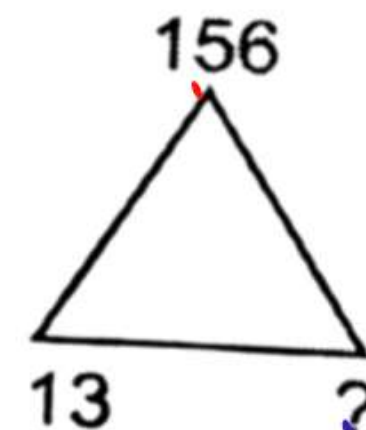
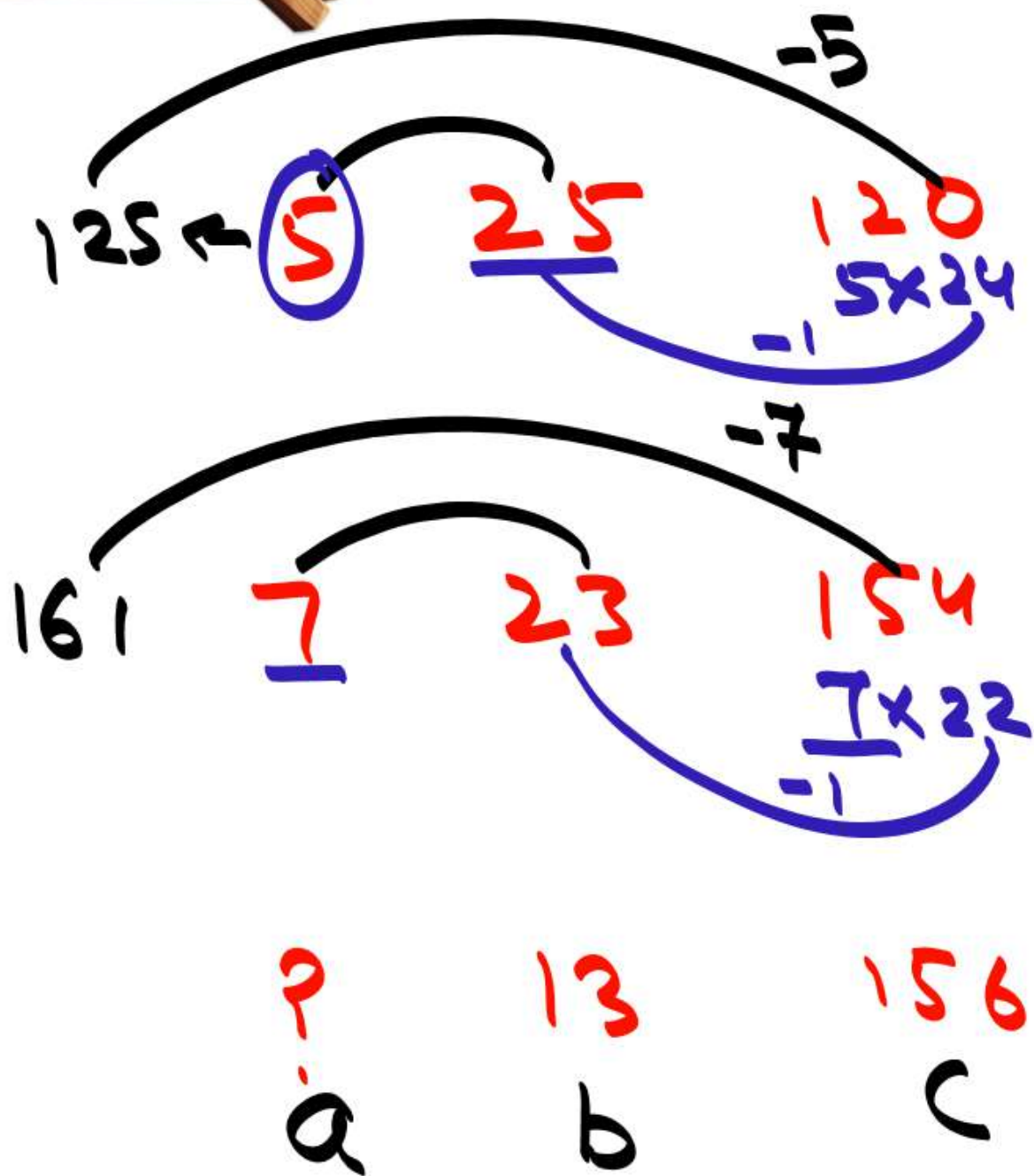
[D] 14

Q (b) C

$$Q^2 = C^3 = b$$

question

9



$$12 \times (13) = 156$$

- ✓ [A] 13
[C] 21

- [B] 11
[D] 23

$$a \times b - a = c$$

$$a \times (b - 1) = c$$



a

b

c

d

$$(a+b+c)^2 = d$$

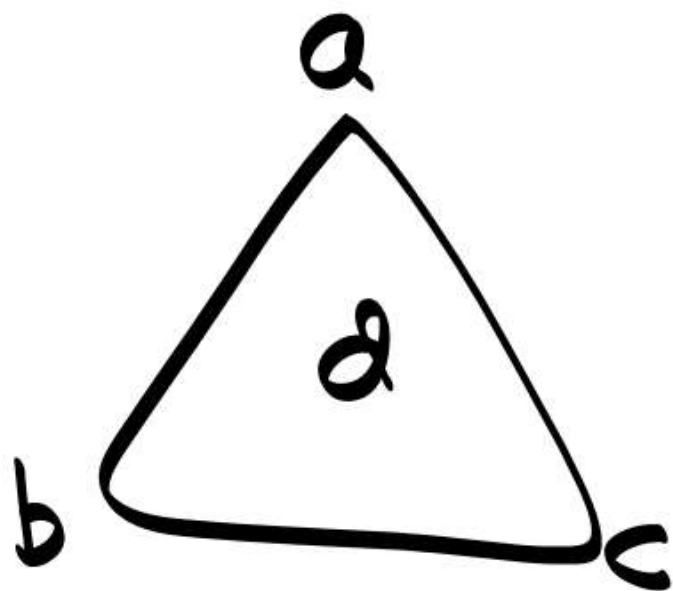
	↓	↓	↓
	11	17	8
	5	3	15
	3	7	12
	361	729	1225
	19 ²	27 ²	35 ²

[A] 22

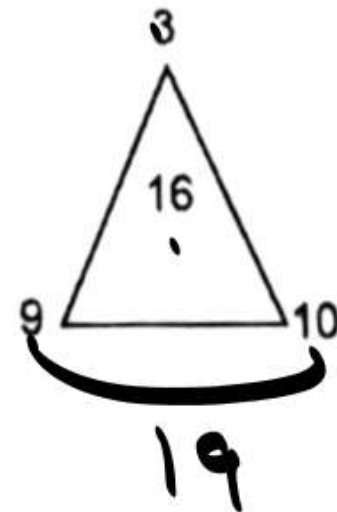
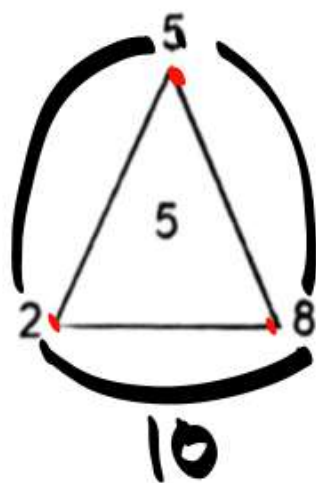
[B] 25

✓ [C] 12

[D] 21



$$b + c - a = d$$

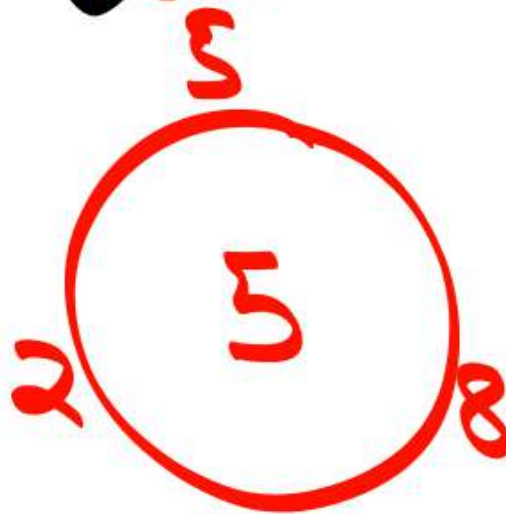


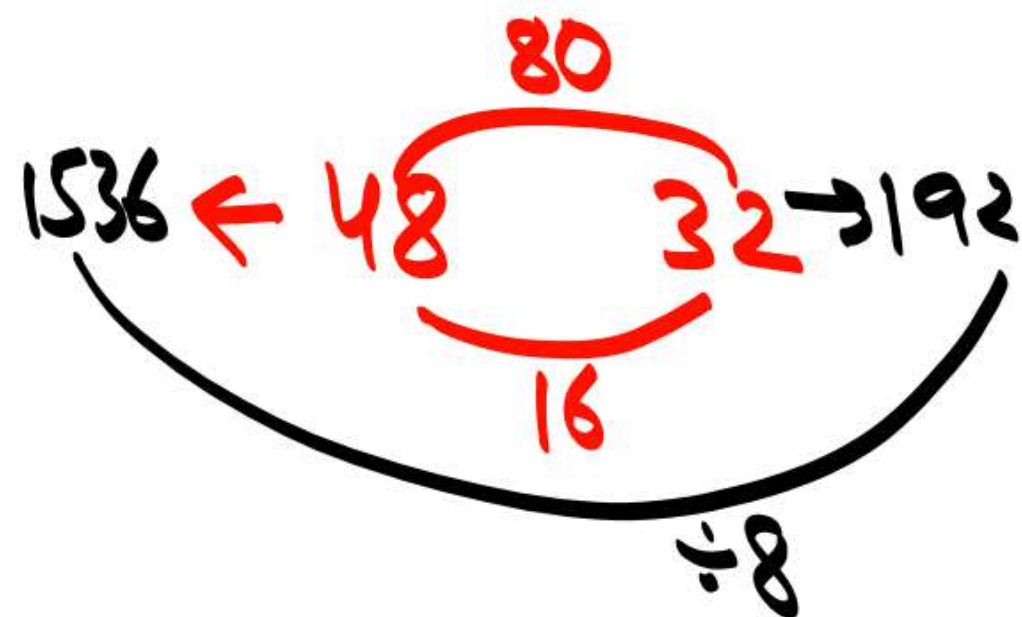
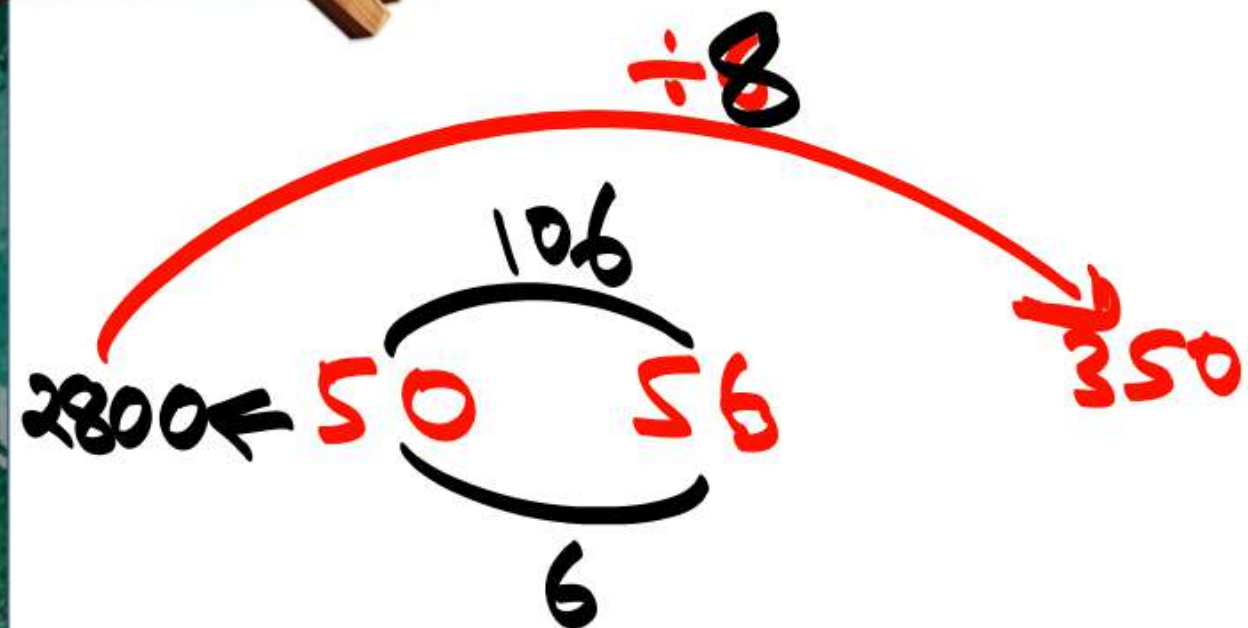
[A] 11

[B] 5

☒ [C] 14

[D] 16





a	50	48	30
b	56 8	32 4	40 5
c	350	192	150

✓ [A] 150
[C] 180

[B] 145
[D] 140

$$\begin{array}{r} (48) \\ (32) \\ \hline 12 \quad 32 \quad 16 \\ 1536 \end{array}$$

$$\frac{a \times b}{8} = c$$

$$b \times c - d = a$$

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

Q
b
c
d

29	71	67
8	11	14
4	7	5
3	6	3

32

70

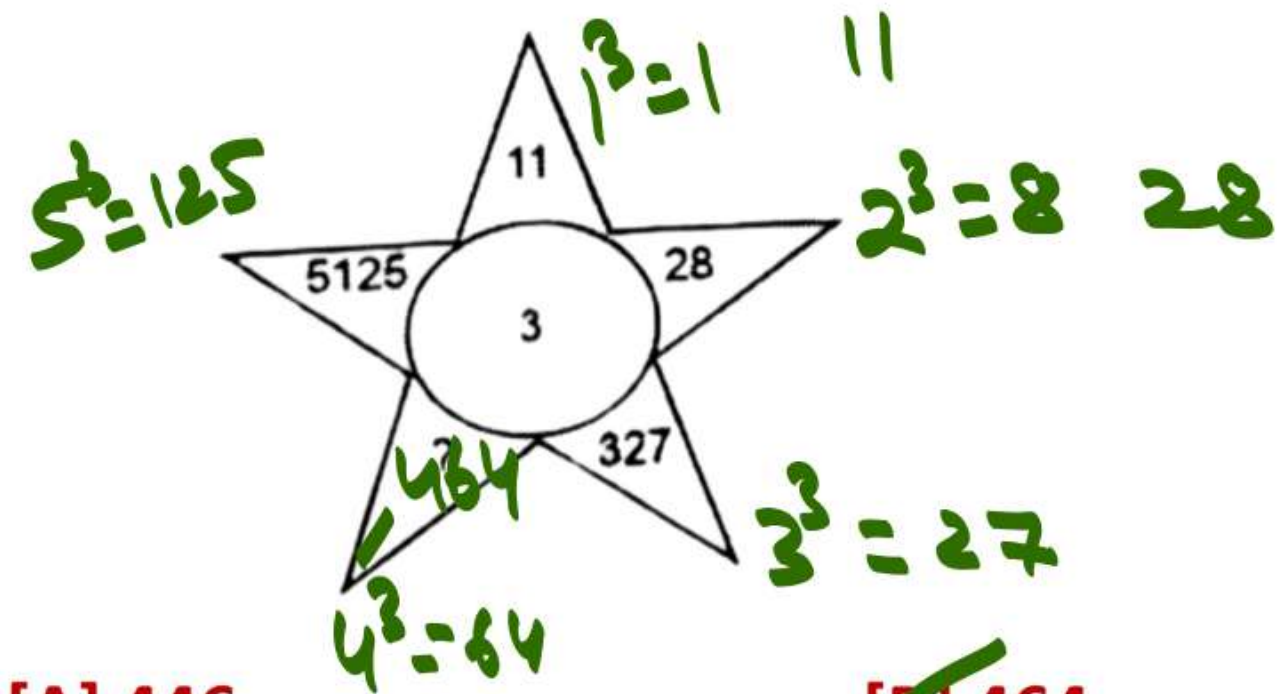
70

[A] 4

☒ [C] 5

[B] 6

[D] 3

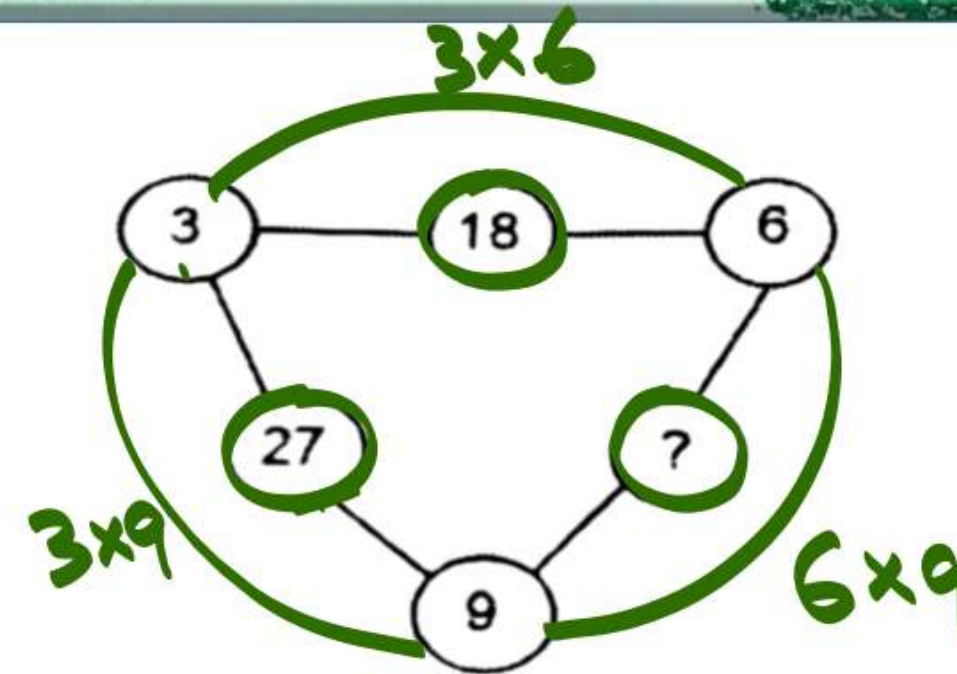


[A] 446

[C] 4126

✓ [B] 464

[D] 444



☒ [A] 54

[C] 38

[B] 18

[D] 29

question

16



Handwritten solution for a sequence problem:

Three triangles are shown, each with a top value, a bottom-left value, and a bottom-right value.

- Triangle 1: Top = 600, Bottom-left = 25, Bottom-right = 5. Above the triangle is $625 - 25$. To the left of the triangle is $625 -$ with a green circle around 25. A red arrow points from the 25 in the triangle to a red 25 below it.
- Triangle 2: Top = 720, Bottom-left = 27, Bottom-right = 3. Above the triangle is $729 - 9$. Below the triangle is 729 with a green circle around 27.
- Triangle 3: Top = 880, Bottom-left = 7, Bottom-right = 9. Above the triangle is $961 - 81$. Below the triangle is 81 with a red circle around 9.

Handwritten calculations on the right:

- $30^2 = 900$
- $31^2 = 961$

Options:

- [A] 31 (crossed out with a red checkmark)
- [B] 21
- [C] 23
- [D] 17

Handwritten calculations on the left:

- $30 - 11 = 19$
- $49 - 14 = 35$
- $72 - 17 = 55$

5	6	19
7	7	35
8	9	?

Handwritten red annotations on the table:

- A red circle around the third column (19, 35, ?).
- A red arrow from 30 to 19 with "-11" above it.
- A red arrow from 49 to 35 with "-14" above it.
- A red arrow from 72 to 55 with "-17" above it.
- Red numbers 11, 14, and 17 are written above the second column (6, 7, 9).

[A] 65

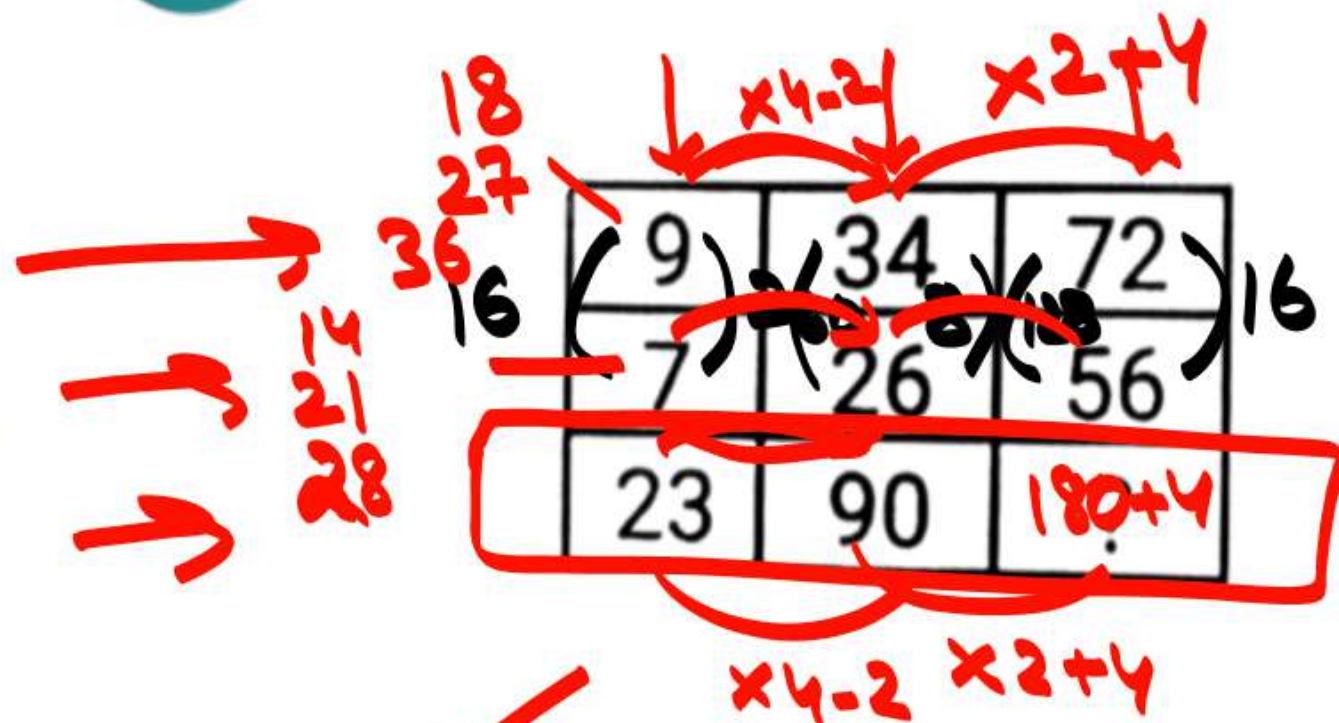
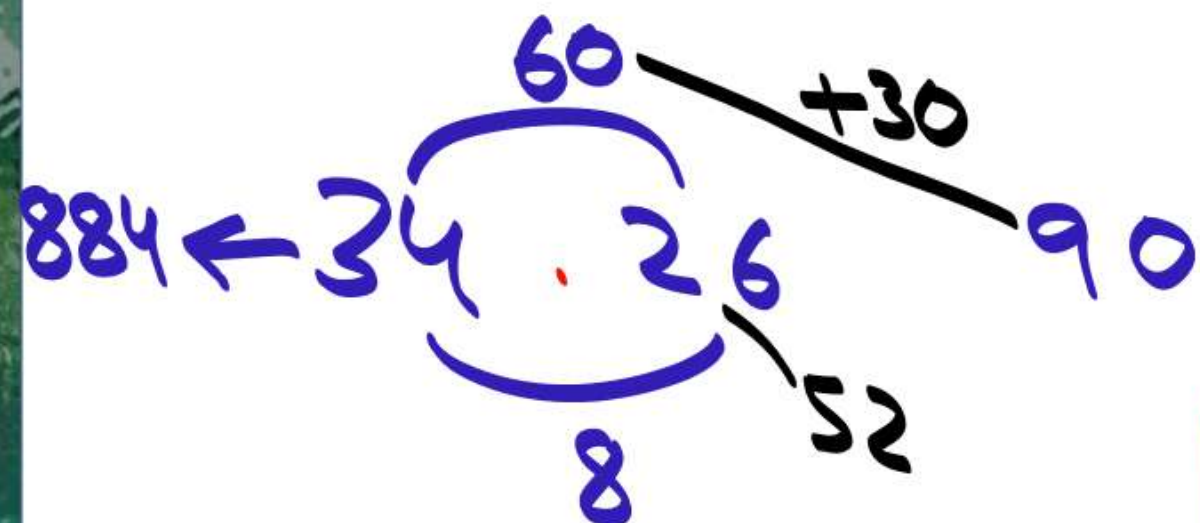
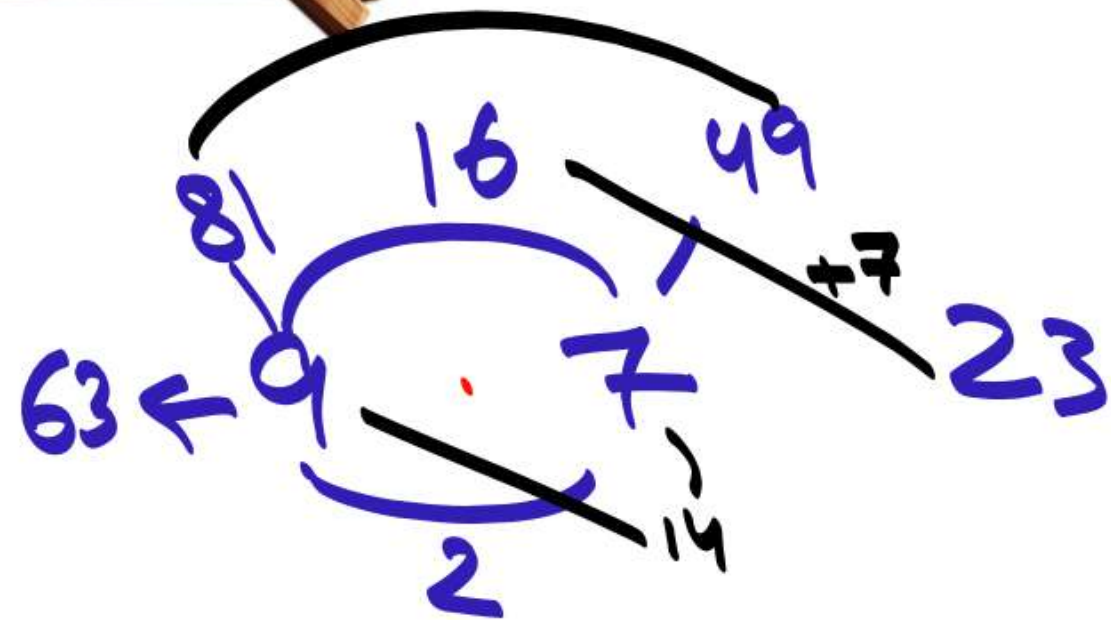
[B] 35

[C] 45

✓ [D] 55

a b c

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

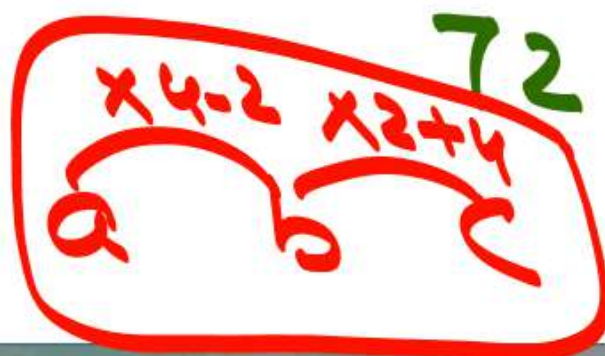


✓ [A] 184

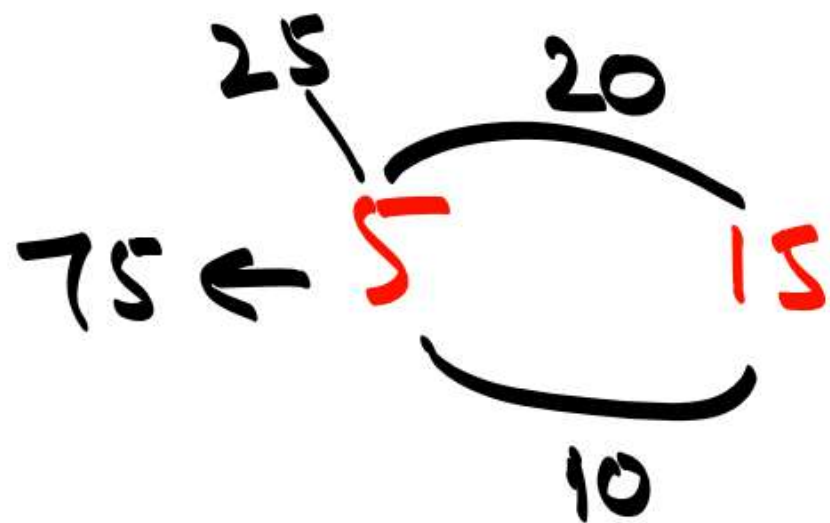
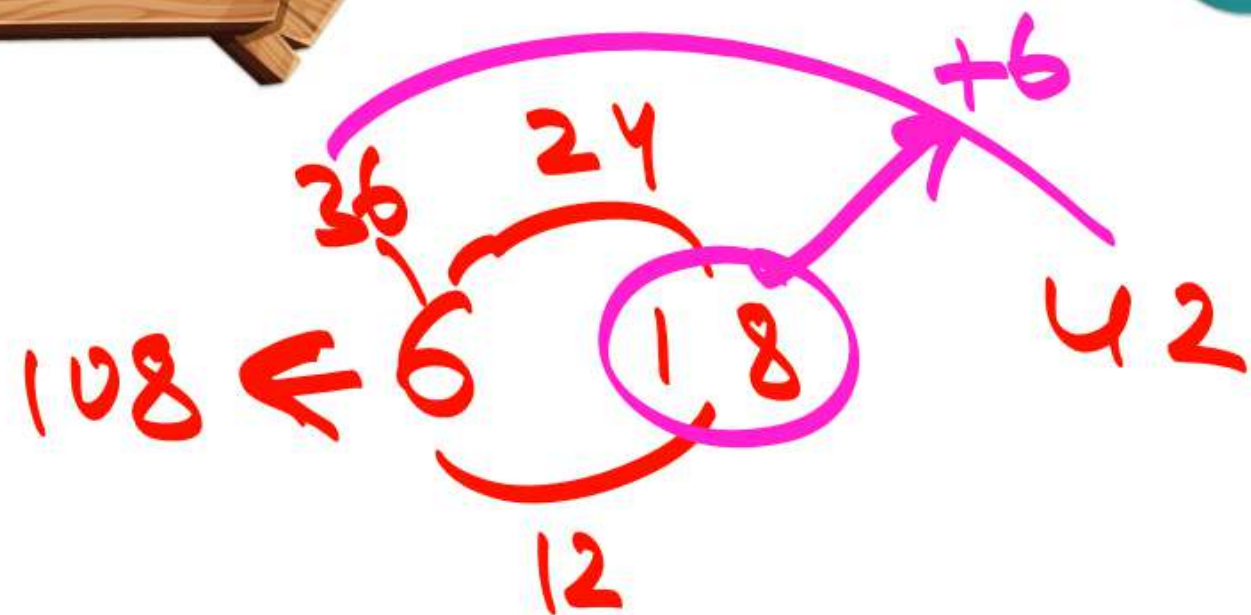
[B] 148

[C] 146

[D] 164



72 56 → ()



a	b	c
6	18	42
5	15	?
7	36	61

$$25 \quad 15 \\ 5^2 + 5 = 30$$

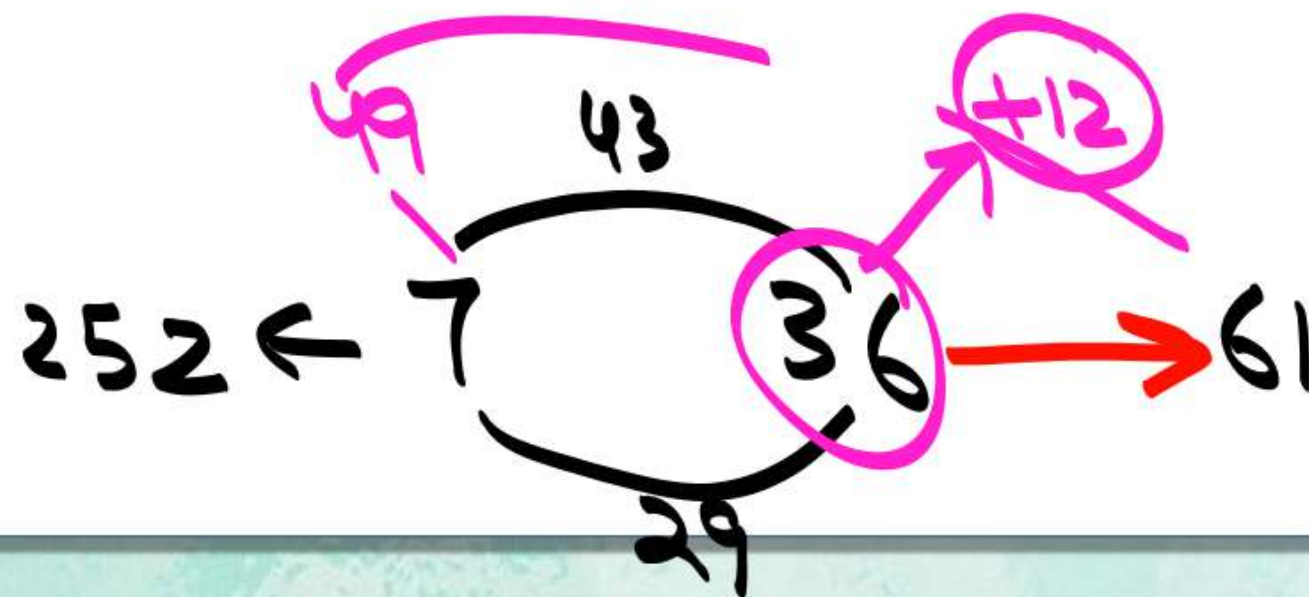
$$a^2 + \frac{b}{3} = c$$

[A] 30

[C] 25

[B] 53

[D] 45



9 13 130
 13×10
+1

14 9 135
 9×15
+1

9	14	7	8
130	135	168	
13	9	?21	

[A] 11

✓ [C] 21

[B] 15

[D] 19

a
b
c

$$(a+1)b=c$$