

# Foundation Batch



# REASONING

## Counting of Figures

**Part -3**

**LIVE 10-08-2024 10:00AM**



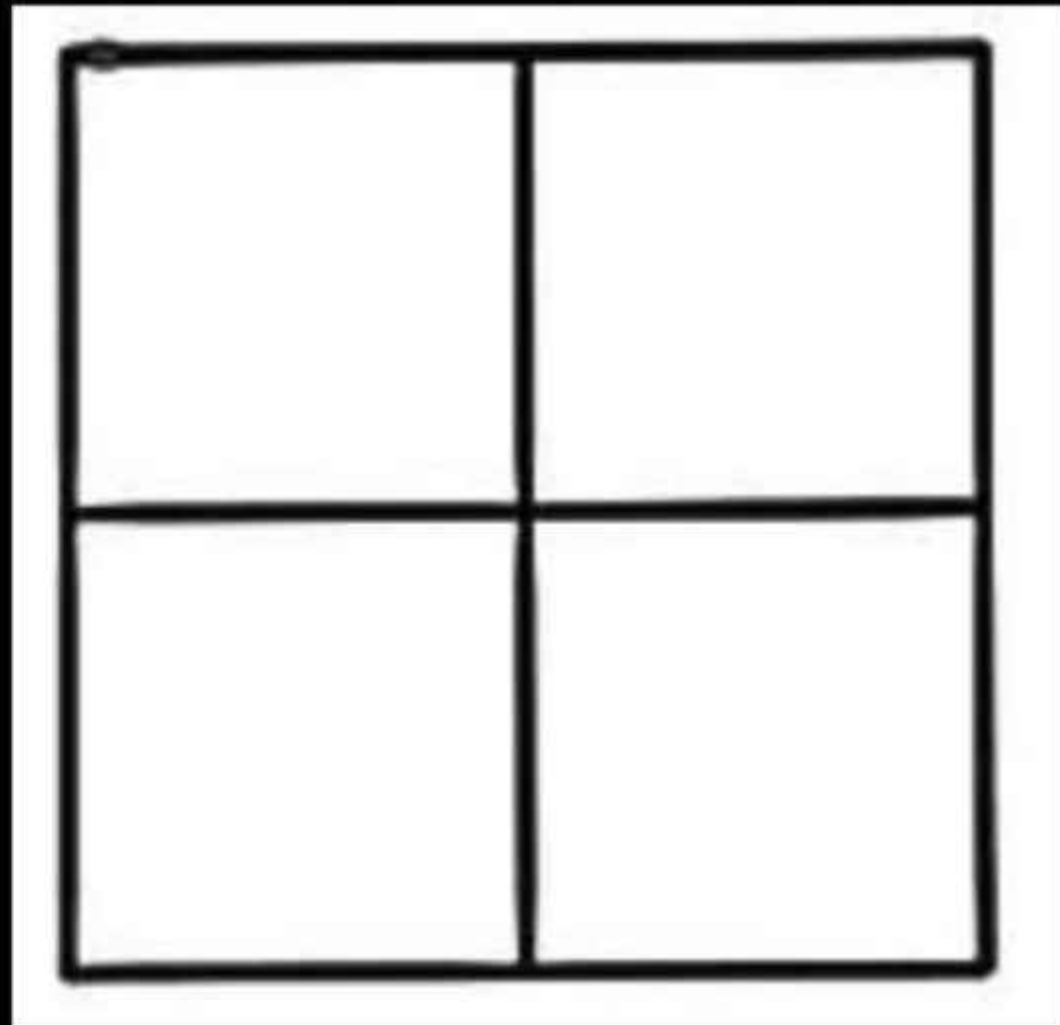
# Foundation Batch REASONING

**Direction :** In each of the following questions, find the number of square in the given figure.

**निर्देश :** निम्नलिखित प्रत्येक प्रश्न में दी गयी आकृति में वर्गों की संख्या ज्ञात कीजिए।



62.



(a) 4

(b) 6

✓ (c) 5

(d) 9



63.

$$\begin{array}{r} 3 \times 3 = 9 \\ 2 \times 2 = 4 \\ 1 \times 1 = 1 \\ \hline 14 \end{array}$$

|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
| 2 |   |   |
| 3 |   |   |

(a) 10

(b) 9

✓ (c) 14

(d) 12



64.

$$\begin{array}{r} 4 \times 4 = 16 \\ 3 \times 3 = 9 \\ 2 \times 2 = 4 \\ 1 \times 1 = 1 \\ \hline 30 \end{array}$$

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 2 |   |   |   |
| 3 |   |   |   |
| 4 |   |   |   |

✓ (a) 30

(b) 40

(c) 20

(d) 50



65.

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 2 |   |   |   |   |
| 3 |   |   |   |   |
| 4 |   |   |   |   |
| 5 |   |   |   |   |

$$\begin{array}{r} 5 \times 5 = 25 \\ 4 \times 4 = 16 \\ 3 \times 3 = 09 \\ 2 \times 2 = 04 \\ 1 \times 1 = 01 \\ \hline 55 \end{array}$$

✓ (a) 55

(b) 60

(c) 50

(d) 70



66.

$$\begin{array}{r} 4 \times 3 = 12 \\ 3 \times 2 = 06 \\ 2 \times 1 = 02 \\ \hline 20 \end{array}$$

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 2 |   |   |   |
| 3 |   |   |   |

(a) 18

✓ (b) 20

(c) 24

(d) 30



67.

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 2 |   |   |   |   |
| 3 |   |   |   |   |

$$\begin{array}{r}
 5 \times 3 = 15 \\
 4 \times 2 = 08 \\
 3 \times 1 = 03 \\
 \hline
 26
 \end{array}$$

(a) 18

(b) 20

(c) 24

✓ (d) 26



68.

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |

$$\begin{array}{r} 7 \times 3 = 21 \\ 6 \times 2 = 12 \\ 5 \times 1 = 05 \\ \hline 38 \end{array}$$

(a) 50

(b) 40

(c) 34

✓ (d) 38



69.

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 2 |   |   |   |
| 3 |   |   |   |
| 4 |   |   |   |
| 5 |   |   |   |

$$4 \times 5 = 20$$

$$3 \times 4 = 12$$

$$2 \times 3 = 06$$

$$1 \times 2 = 02$$

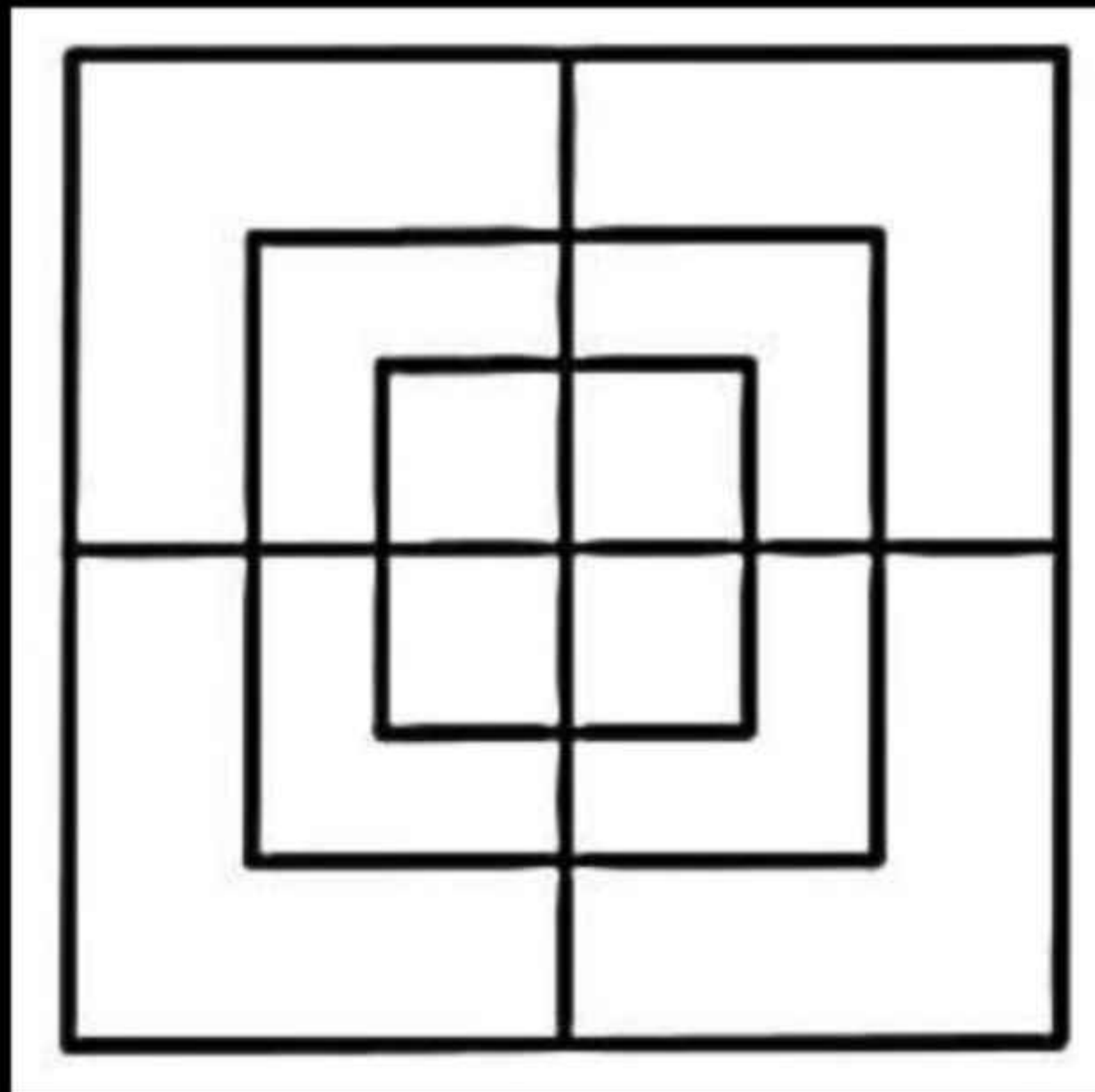
$$40 + 20$$

$$60 \quad (a) \ 8$$

$$\checkmark \quad (c) \ 15$$

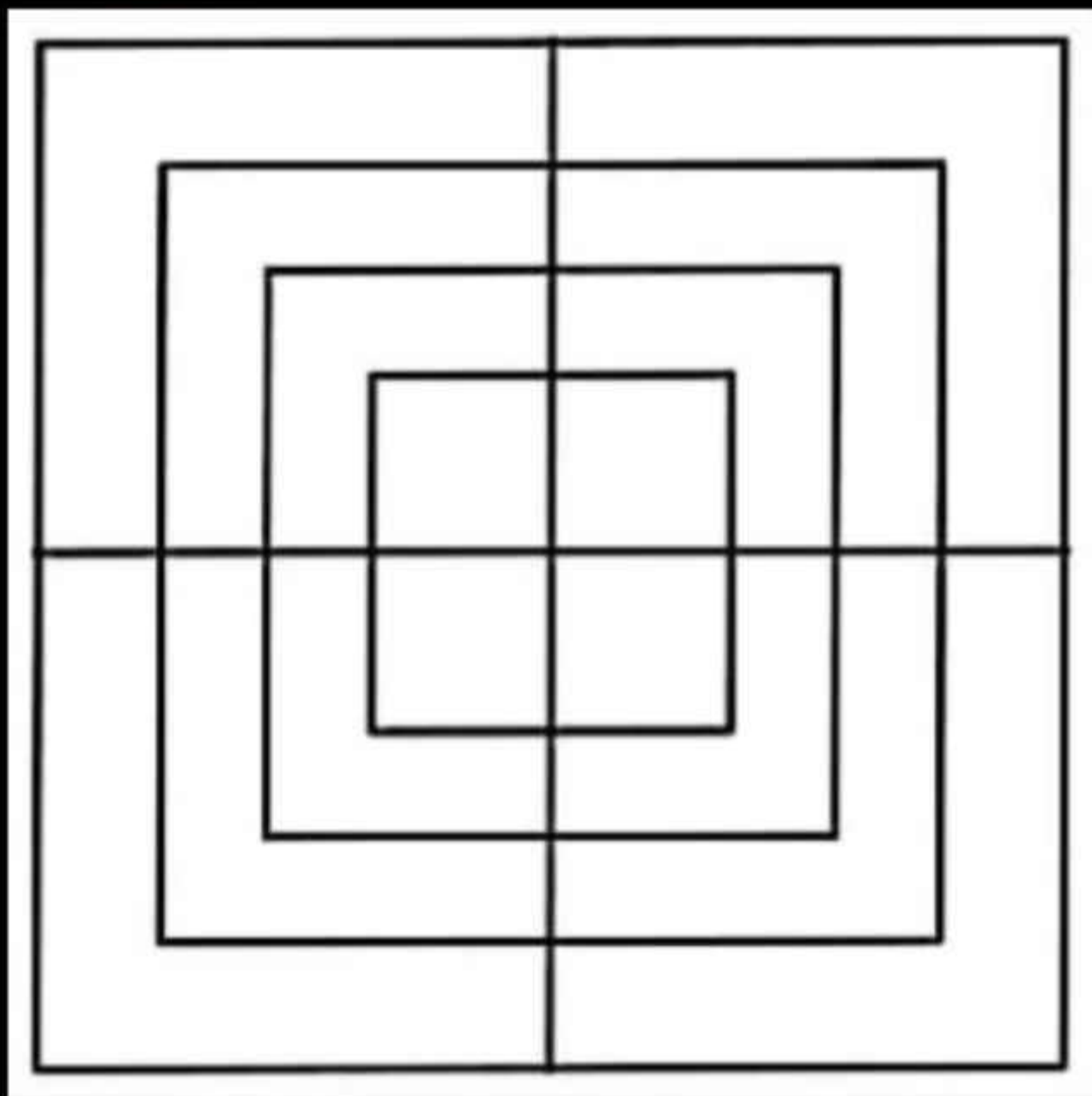
$$(b) \ 12$$

$$(d) \ 18$$





70.



(a) 18

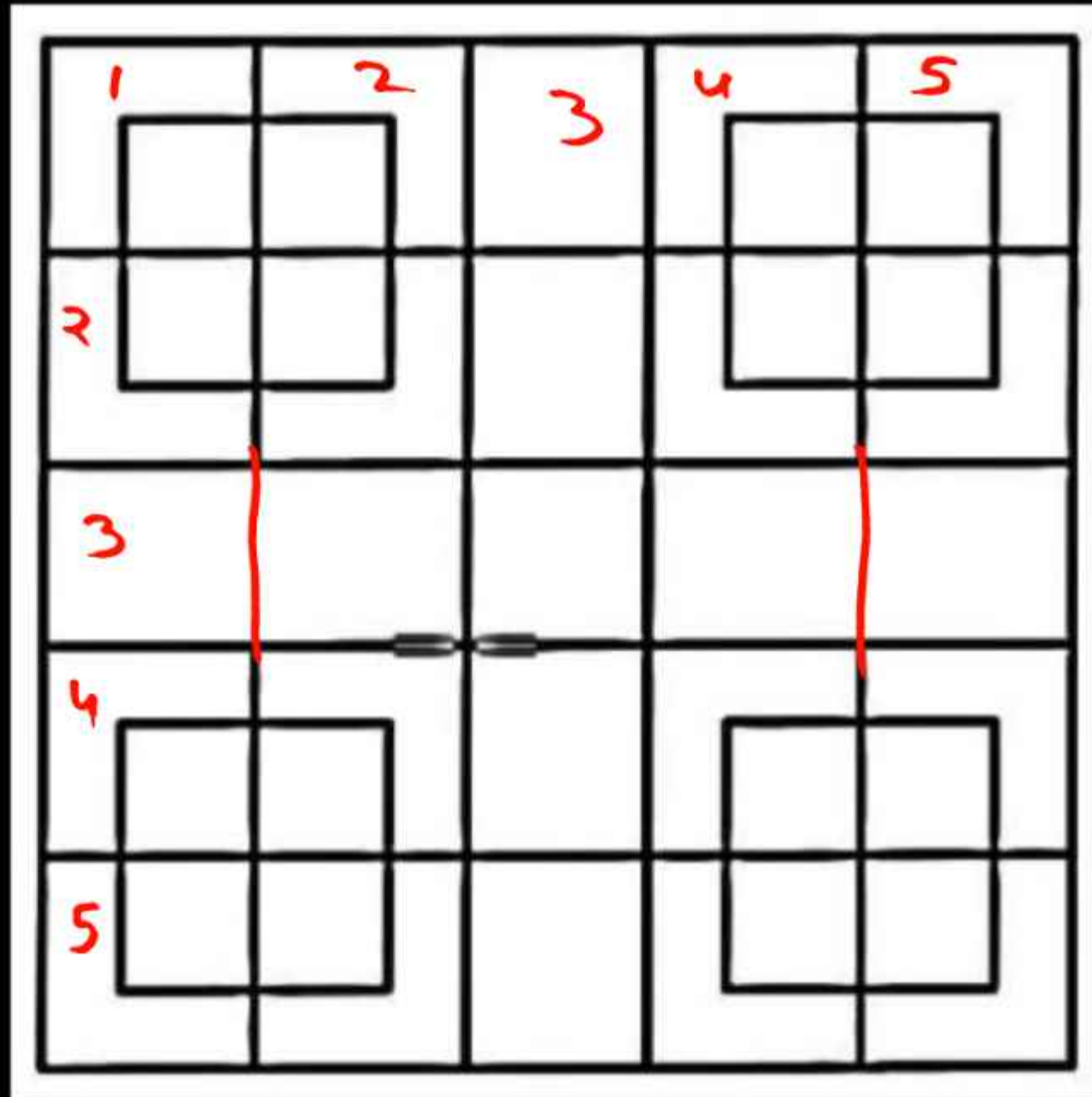
✓ (b) 20

(c) 22

(d) 26



71.



$$\begin{array}{r}
 5 \times 5 = 25 \\
 4 \times 4 = 16 \\
 3 \times 3 = 09 \\
 2 \times 2 = 04 \\
 1 \times 1 = 01 \\
 \hline
 55 + 20 \\
 75
 \end{array}$$

(a) 55

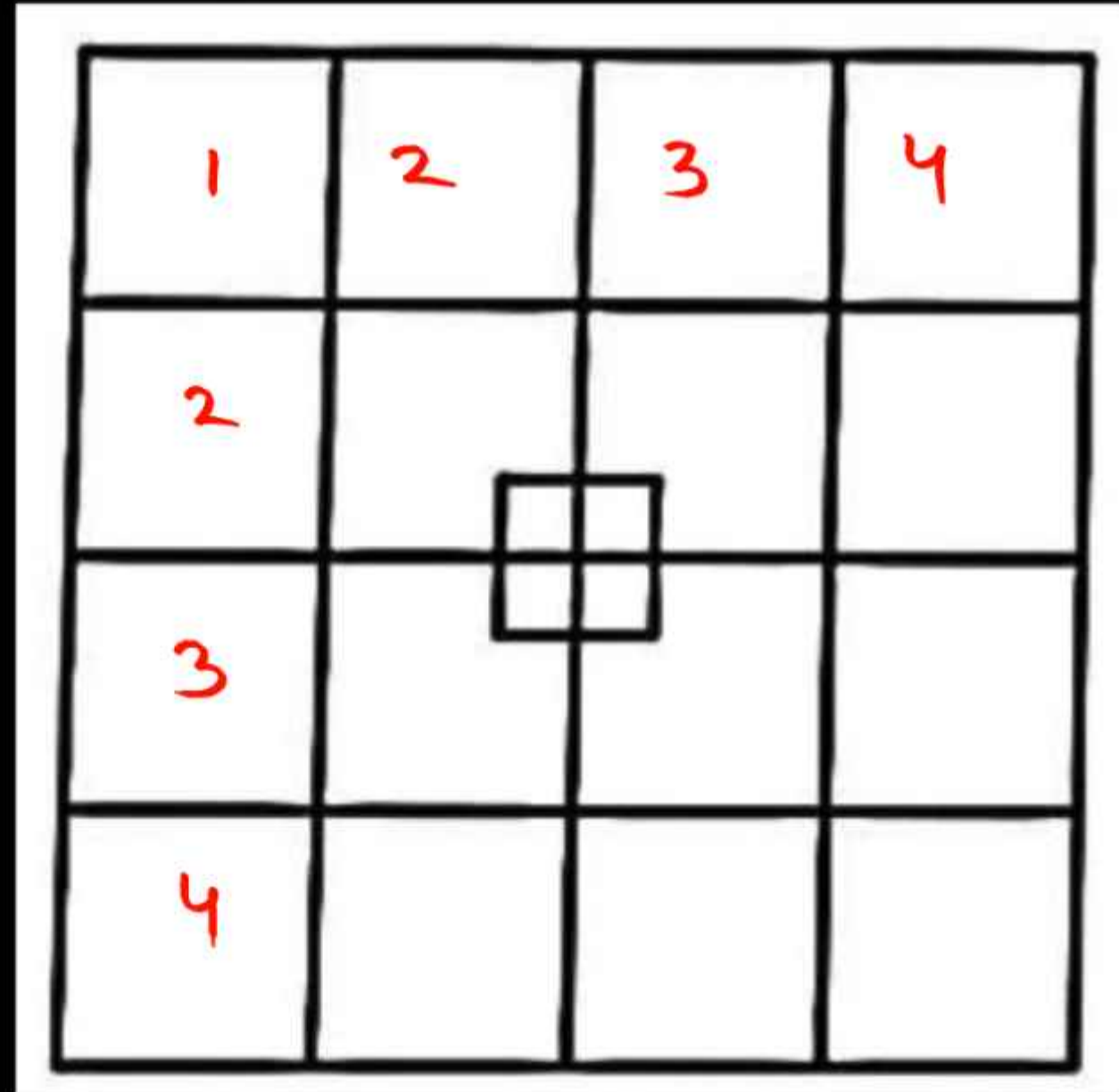
✓ (b) 75

(c) 20

(d) 85



72.



$$4 \times 4 = 16$$

$$3 \times 3 = 09$$

$$2 \times 2 = 04$$

$$1 \times 1 = 01$$

$$\begin{array}{r} 30+5 \\ \hline 35 \end{array}$$

✓ (a) 35

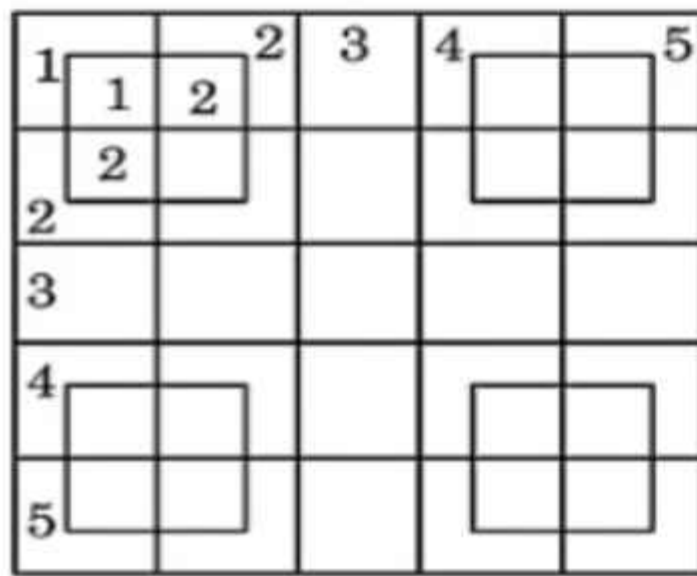
(c) 38

(b) 36

(d) 37

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 1 | 1 | 2 | 2 | 3 | 4 | 5 |
| 2 | 2 |   |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 4 |   |   |   |   |   |   |
| 5 |   |   |   |   |   |   |

134.



बड़ी आकृति में वर्गों की संख्या

$$= (1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2$$

$$= 55$$

यहाँ एक जैसी छोटी 4 आकृतियाँ हैं, ऐसी प्रत्येक आकृति में वर्गों की संख्या एक समान होगी।

$$= (1)^2 + (2)^2 = 5$$

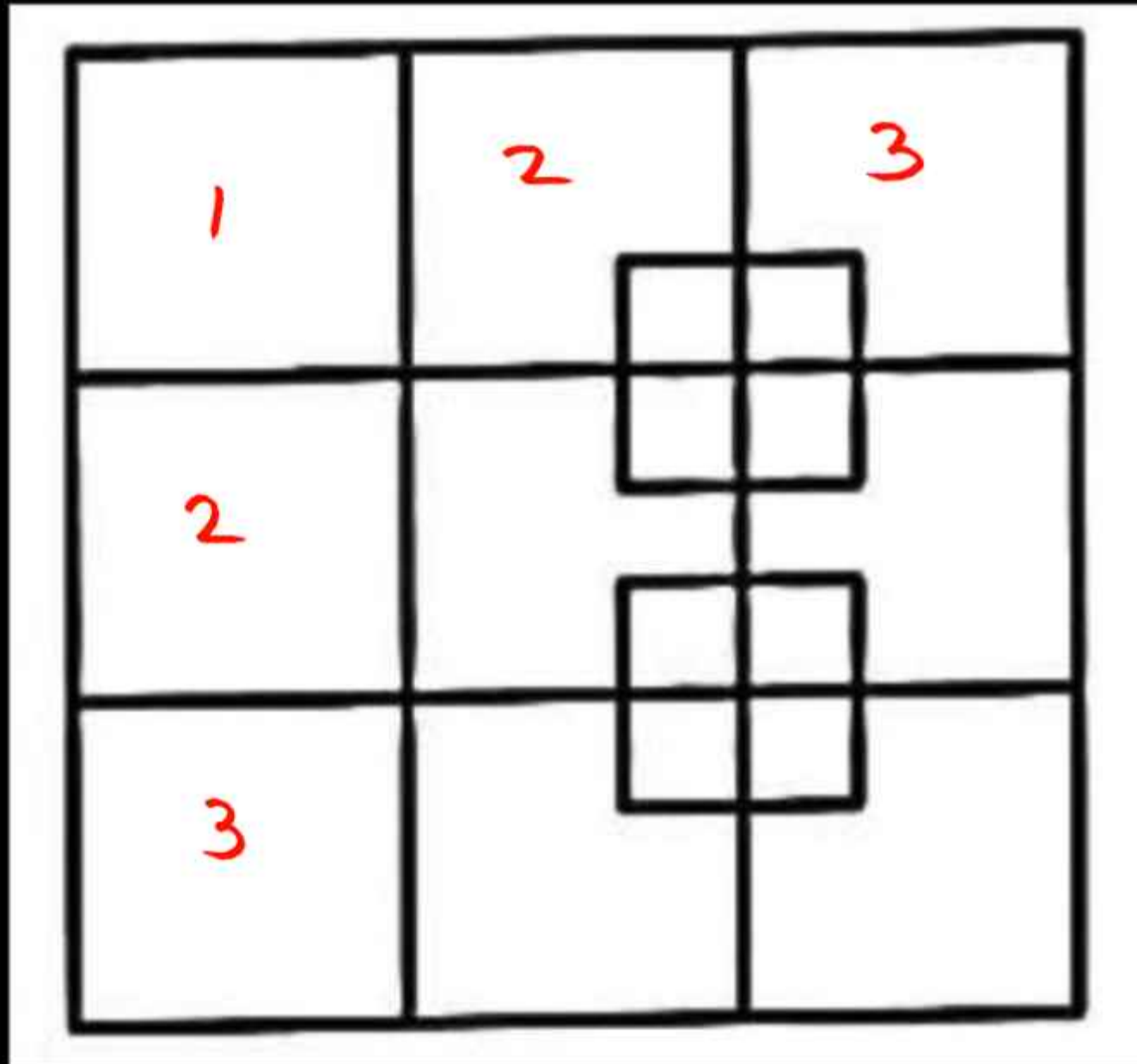
अतः चार छोटी आकृतियों में वर्गों की संख्या

$$= 4 \times 5 = 20$$

$$\text{कुल वर्गों की संख्या} = 55 + 20 = 75$$

73.

$$\begin{array}{r}
 3 \times 3 = 9 \\
 2 \times 2 = 4 \\
 1 \times 1 = 1 \\
 \hline
 14 + 10 \\
 24
 \end{array}$$



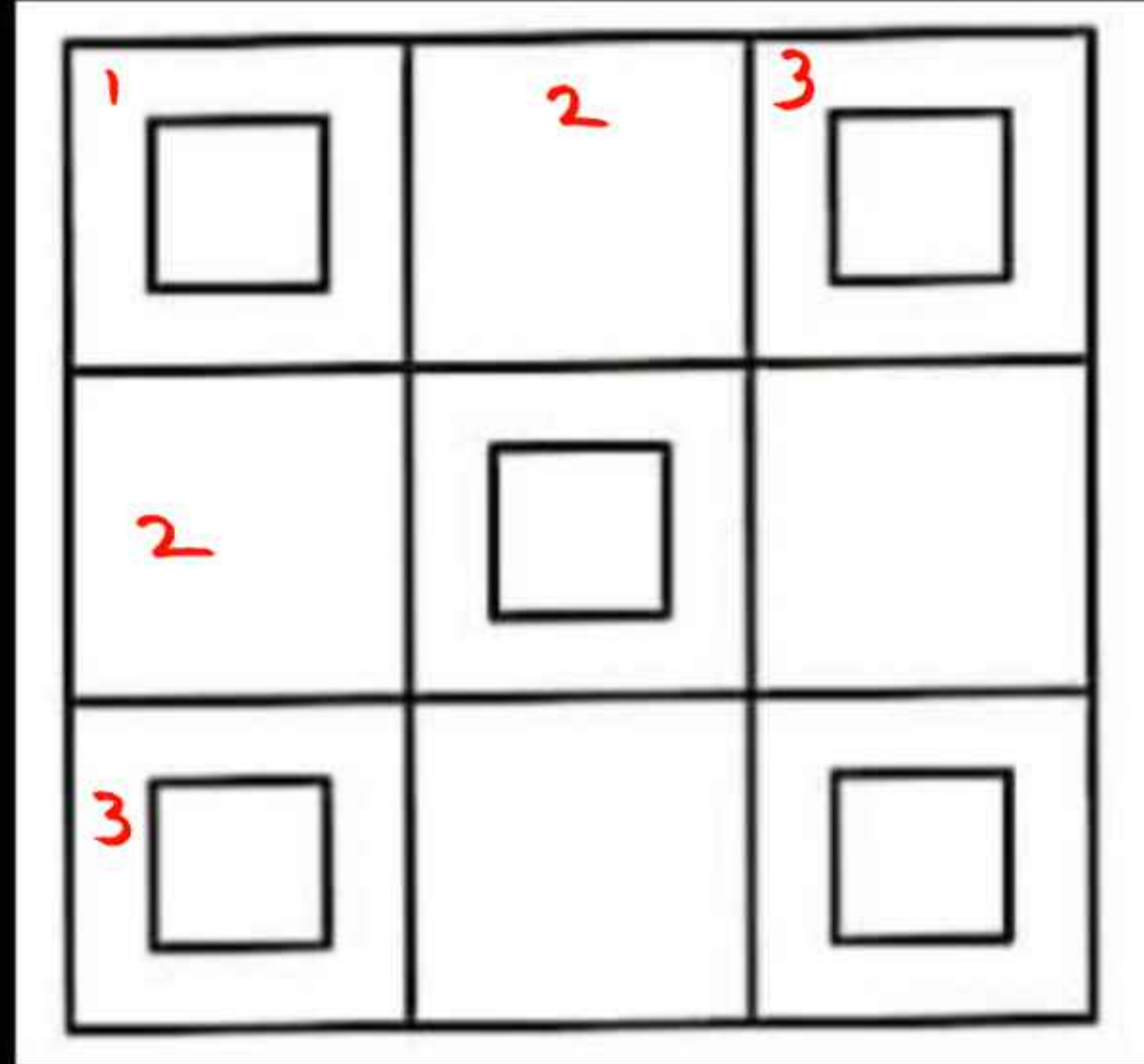
(a) 22

(b) 20

(c) 26

✓ (d) 24

74.



$$\begin{array}{r}
 3 \times 3 - 9 \\
 2 \times 2 - 4 \\
 1 \times 1 - 1 \\
 \hline
 14 + 5 \\
 19
 \end{array}$$

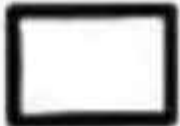
(a) 20

(b) 18

(c) 17

✓ (d) 19

75.

|                                                                                            |                                                                                     |                                                                                     |                                                                                          |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1<br>   | 2                                                                                   | 3                                                                                   | 4<br> |
| 2                                                                                          |  |  |                                                                                          |
| 3                                                                                          |  |  |                                                                                          |
| 4<br> |                                                                                     |                                                                                     |     |

$$\begin{array}{r}
 4 \times 4 - 16 \\
 3 \times 3 - 09 \\
 2 \times 2 - 04 \\
 1 \times 1 - 01 \\
 \hline
 30 + 8
 \end{array}$$

(a) 36

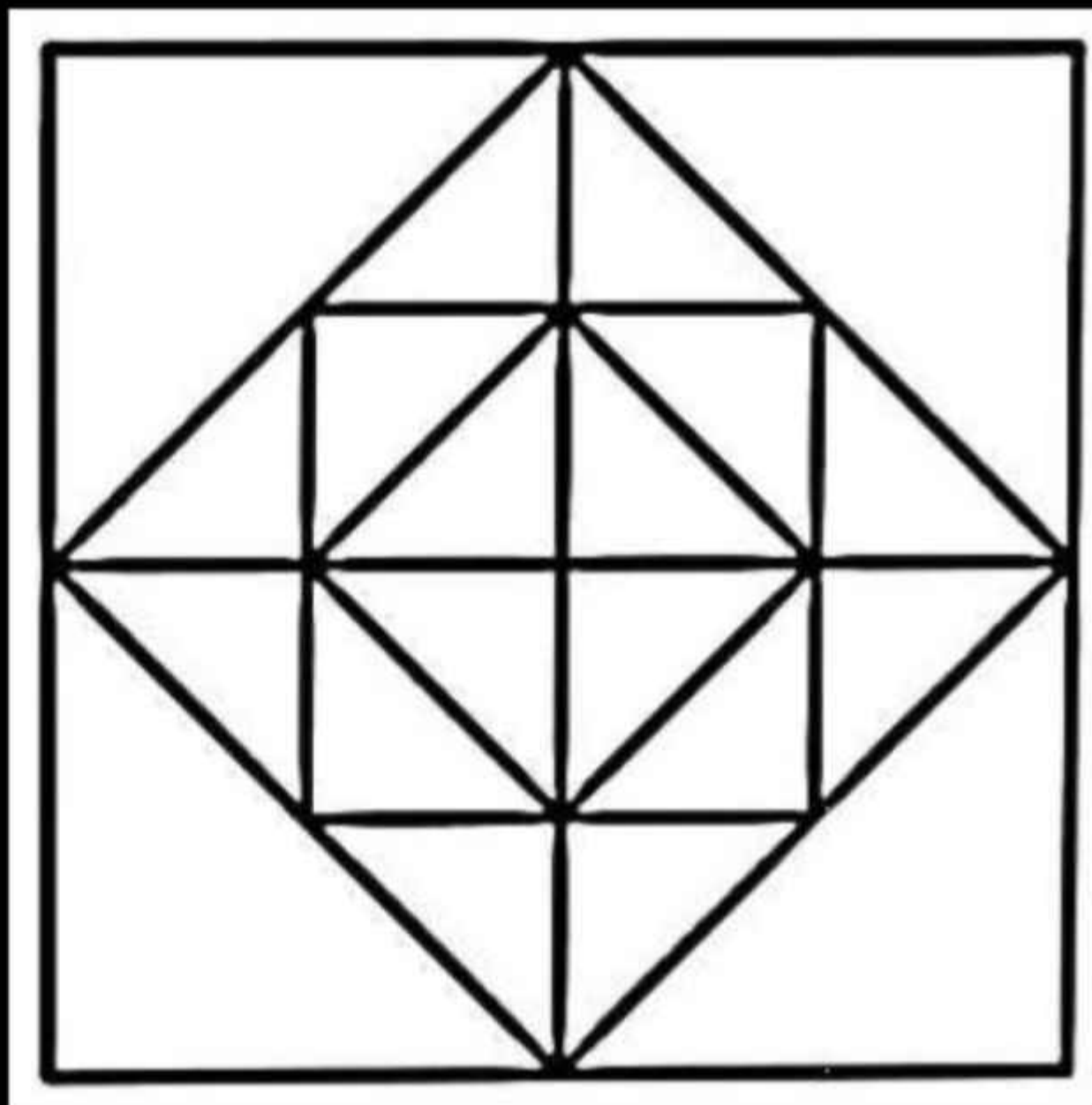
(b) 40

(c) 42

✓ (d) 38



76.



(a) 14

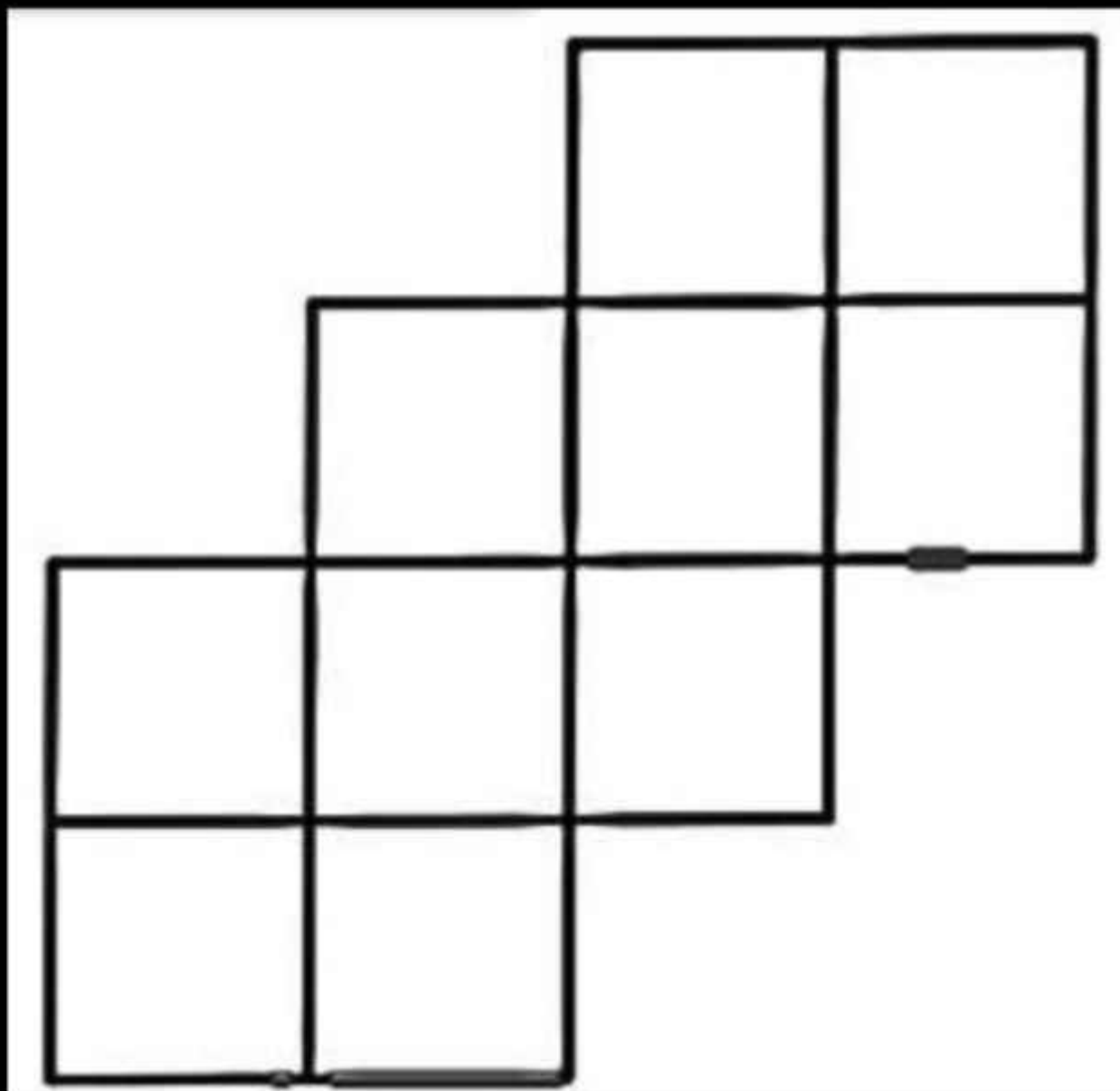
✓ (b) 12

(c) 10

(d) 16

77.

15-2



(a) 15

(b) 12

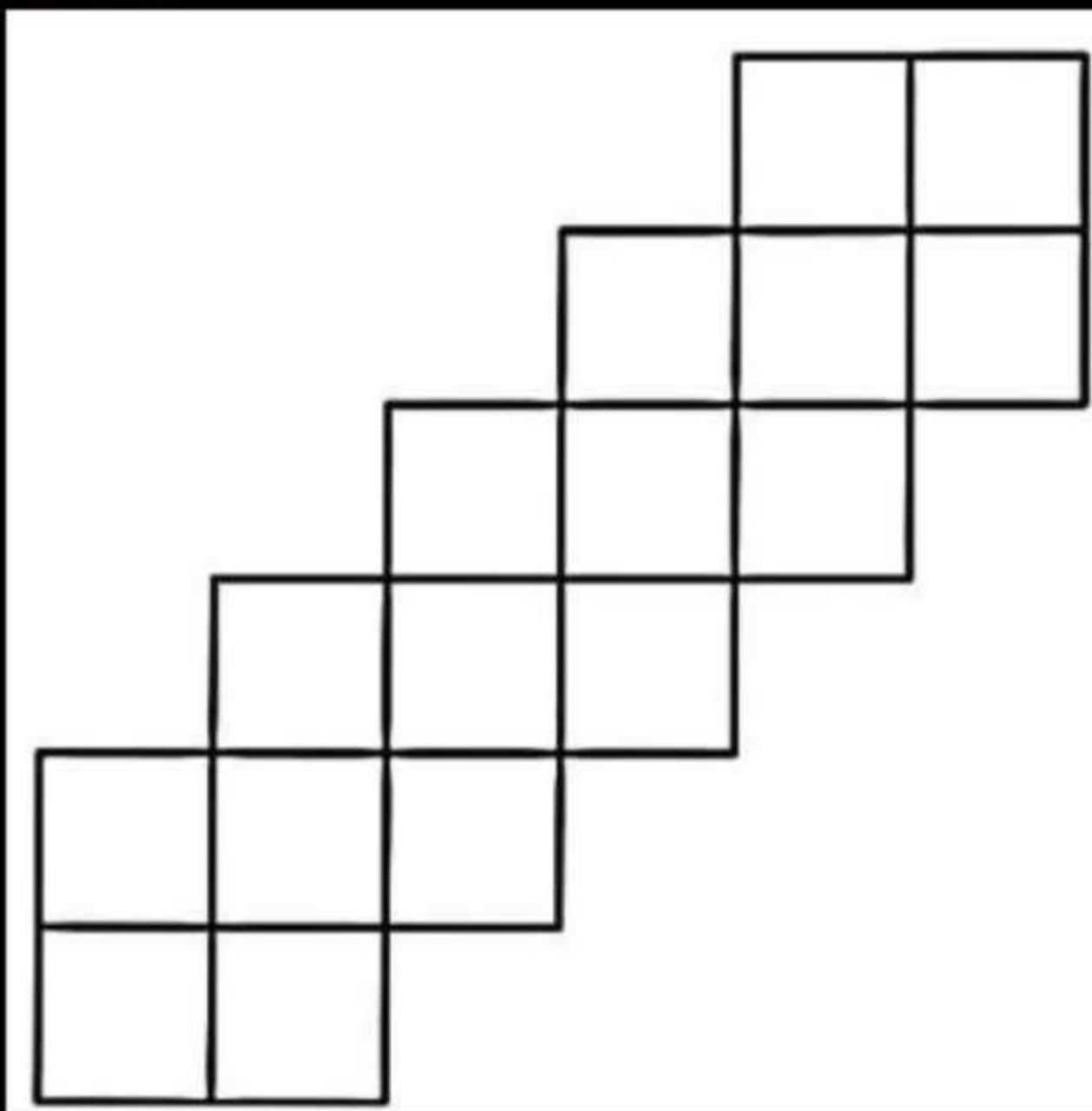
✓ (c) 13

(d) 14



78.

$$25 - 4$$
$$21$$



(a) 25

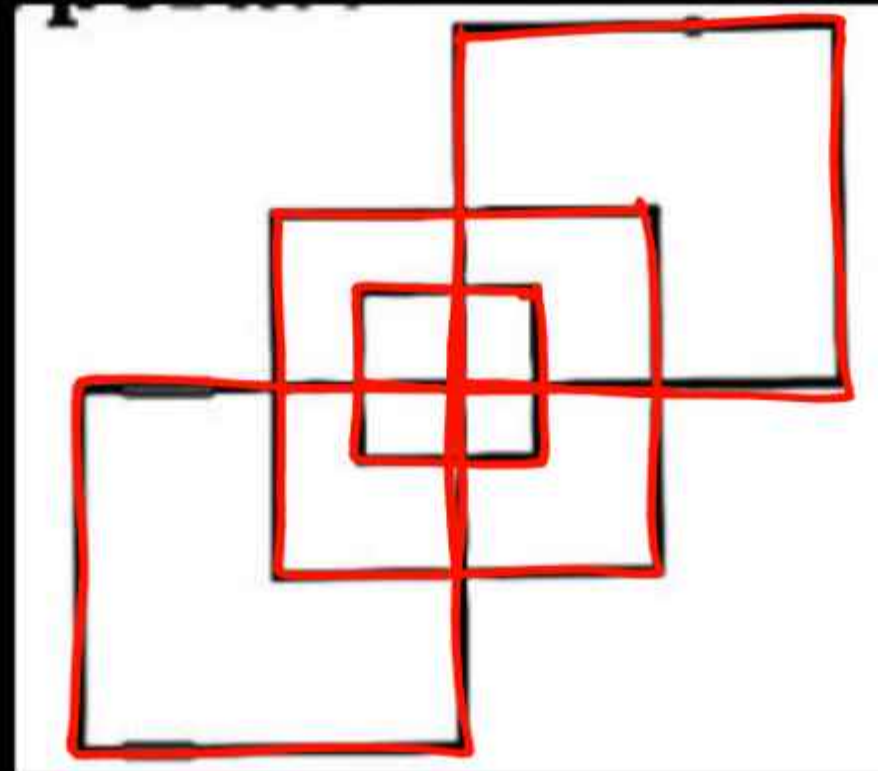
(b) 28

(c) 14

✓ (d) 21

79. How many Squares are there in the given figure?

दी गई आकृति में कितने वर्ग हैं?



(a) 15

✓ (b) 12

(c) 19

(d) 8

# Foundation Batch REASONING

**Direction :** In each of the following questions, find the number of rectangles in the given figure.

**निर्देश :** निम्नलिखित प्रत्येक प्रश्न में दी गयी आकृति में आयतों की संख्या ज्ञात कीजिए।



80.

$$\frac{6}{6} \frac{36}{36}$$

|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
| 2 |   |   |
| 3 |   |   |

आयत - 36

वर्ग - 14

केवल आयत -

$$36 - 14$$

$$22$$

(a) 32

(b) 42

(c) 28

(d) 36

$$3 \times 3 = 9$$

$$2 \times 2 = 4$$

$$1 \times 1 = 1$$

14 वर्ग



81.

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 2 |   |   |   |
| 3 |   |   |   |
| 4 |   |   |   |

आयत - 100

वर्ग - 30

केवल आयत -  $100 - 30$   
70

$$\begin{array}{r} 10 \\ 10 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 4 \times 4 = 16 \\ 3 \times 3 = 09 \\ 2 \times 2 = 04 \\ 1 \times 1 = 01 \\ \hline 30 \end{array}$$

(a) 80

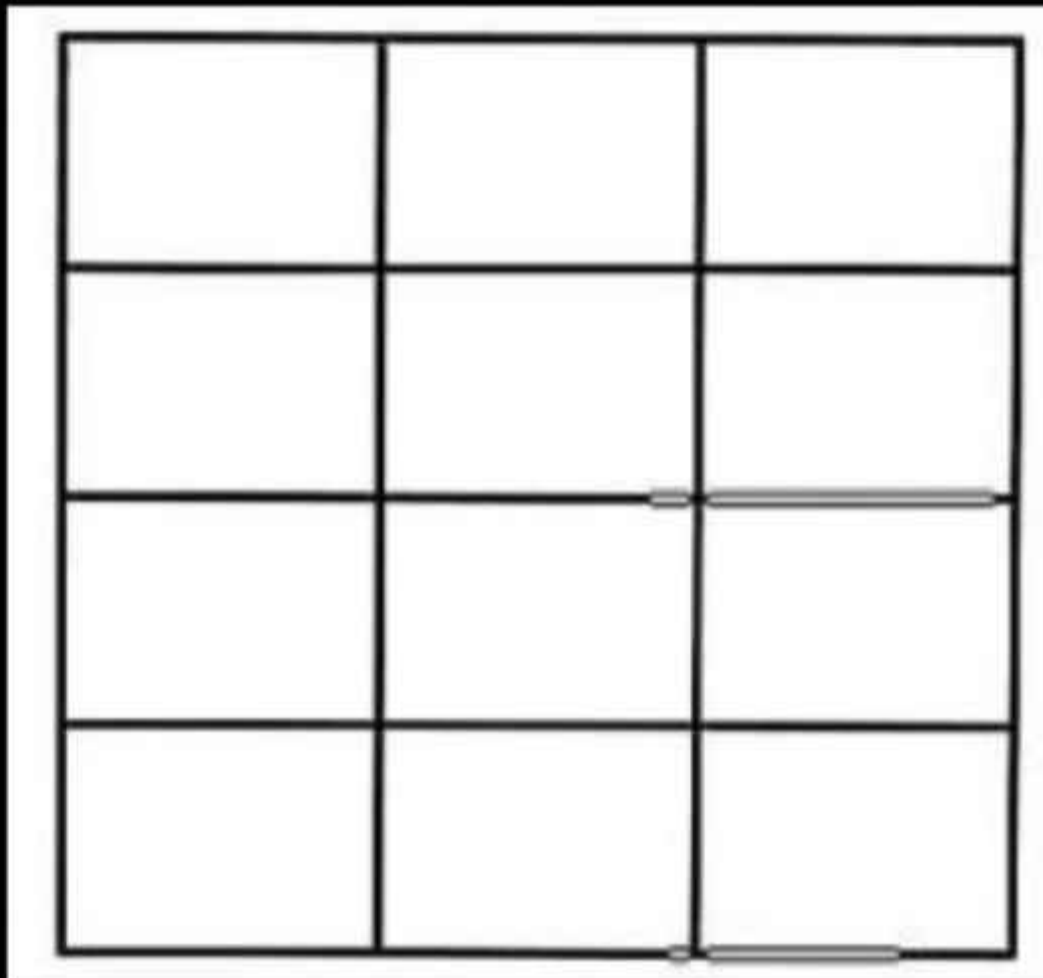
(c) 95

(b) 90

(d) 100



82.



(a) 60

(b) 50

(c) 40

(d) 80



83.

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

(a) 168

(b) 174

(c) 160

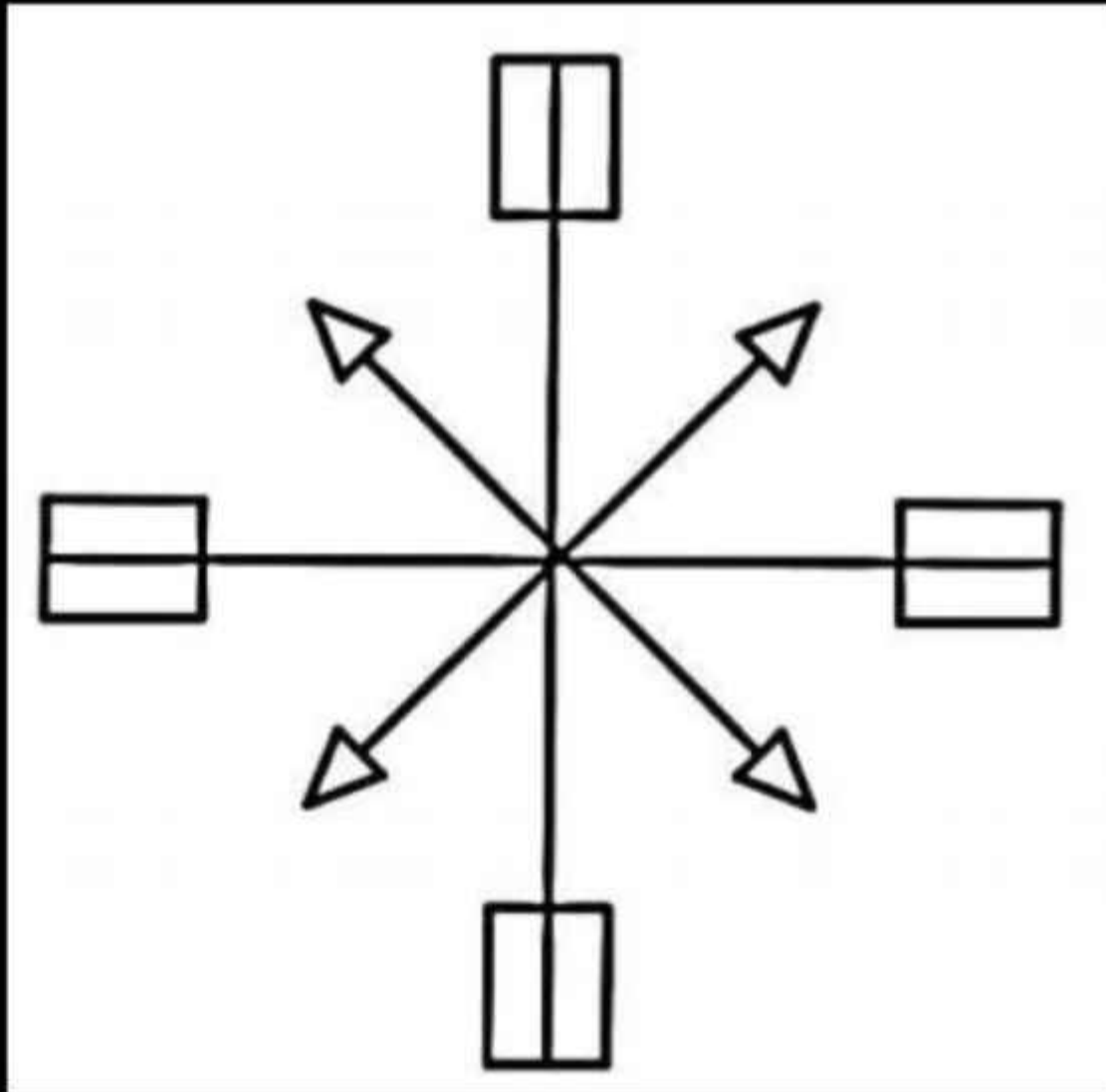
(d) 150

(b) 20

**(d) 24**



85.



(a) 14

(b) 12

(c) 8

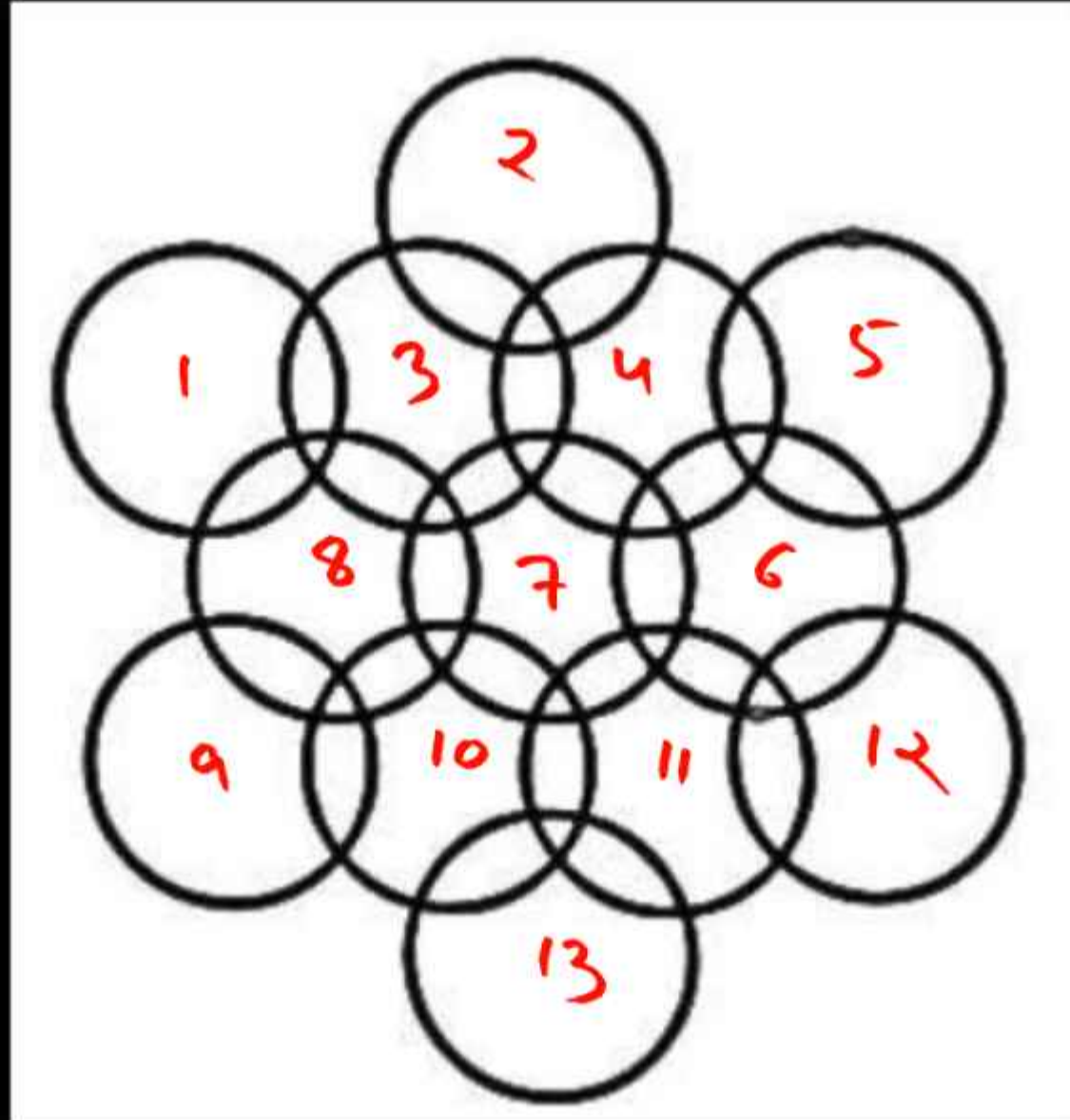
(d) 10

# Foundation Batch REASONING

**Directions:** In each of the following questions, count the number of circles in the given figure?

निर्देश : निम्नलिखित प्रत्येक प्रश्न में दी गयी आकृति में वृत्तों की संख्या बताइए।

88.



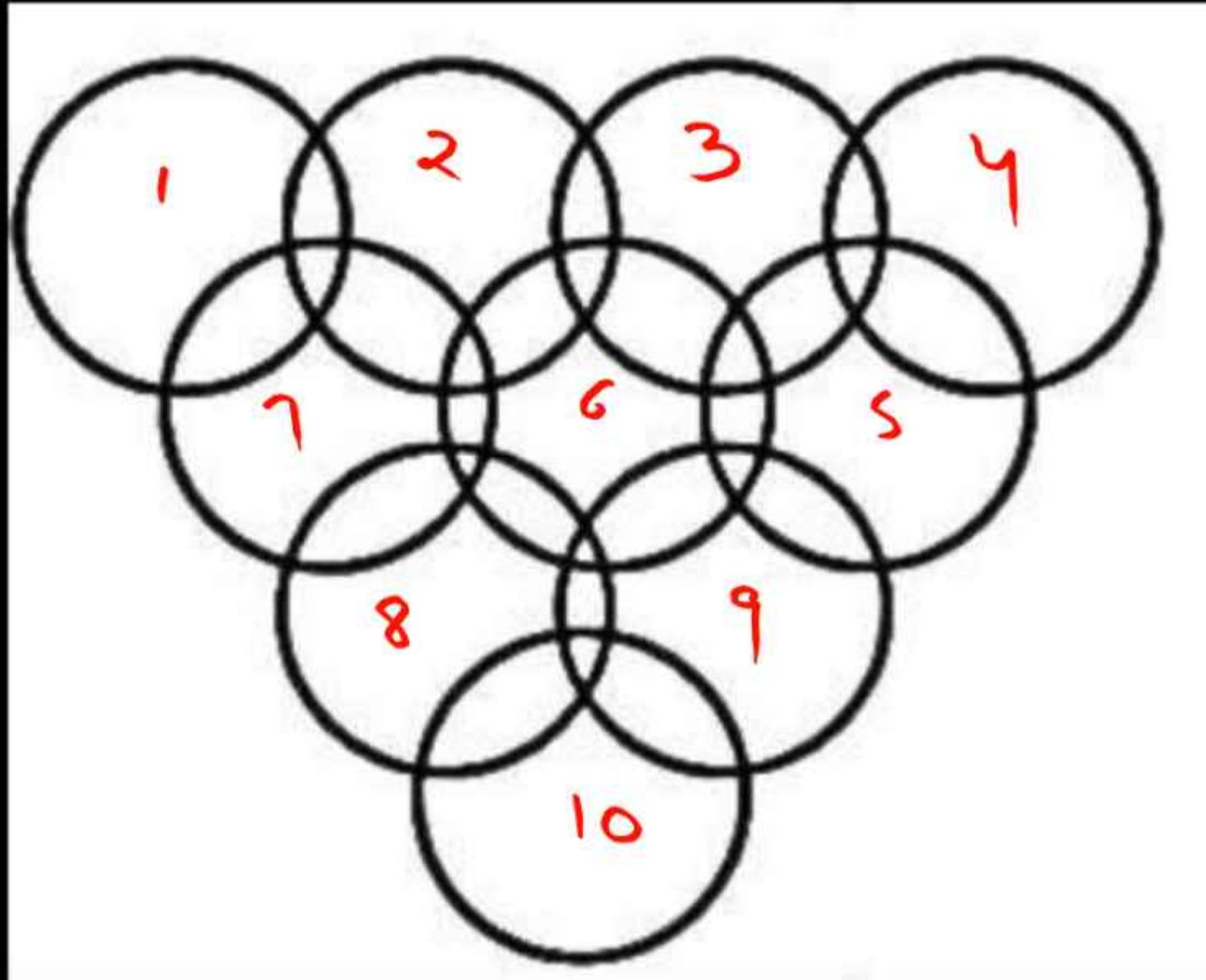
(a) 11

(b) 14

(c) 12

✓ (d) 13

89.



(a) 9

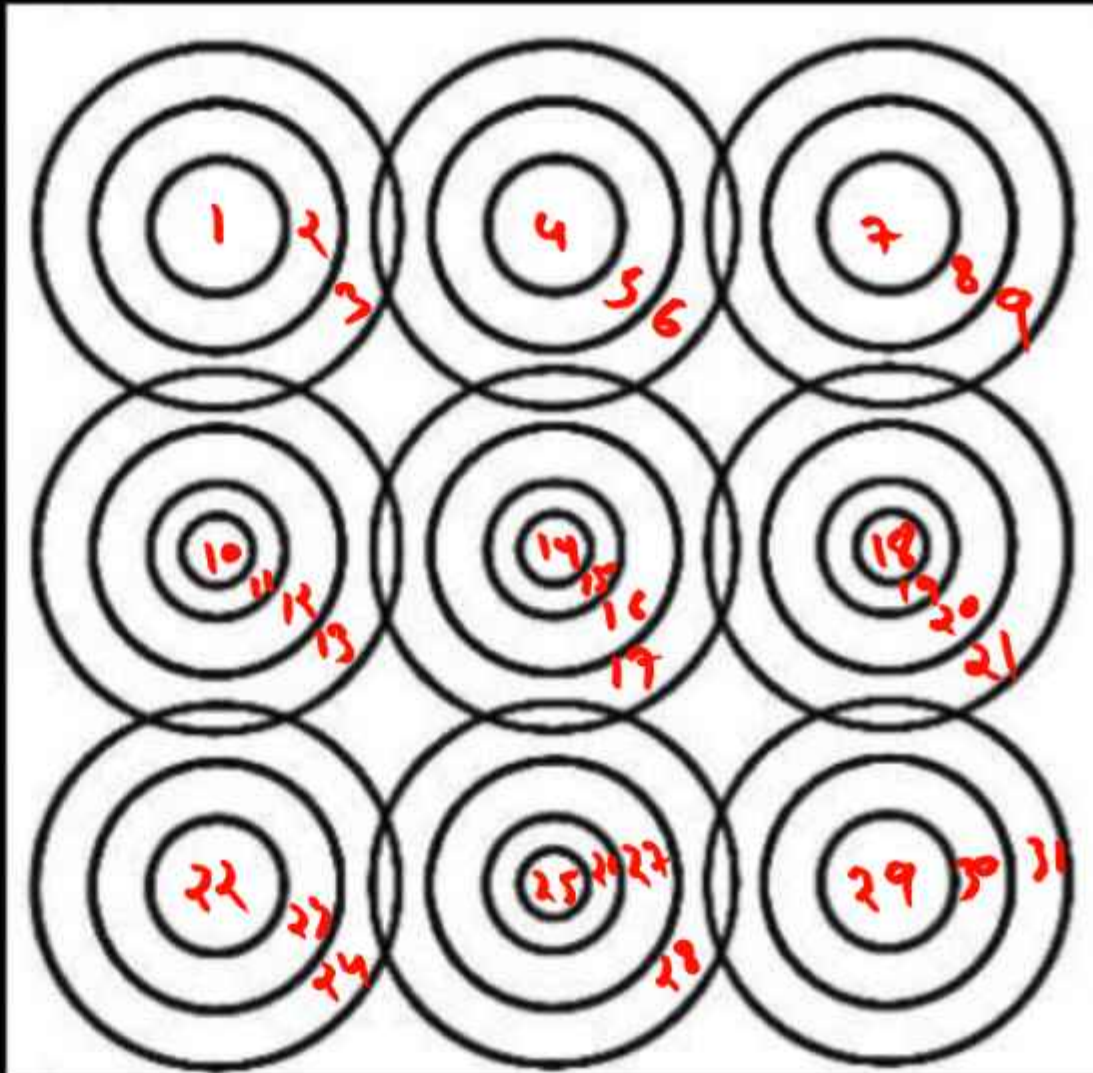
✓ (b) 10

(c) 12

(d) 13



90.



(a) 19

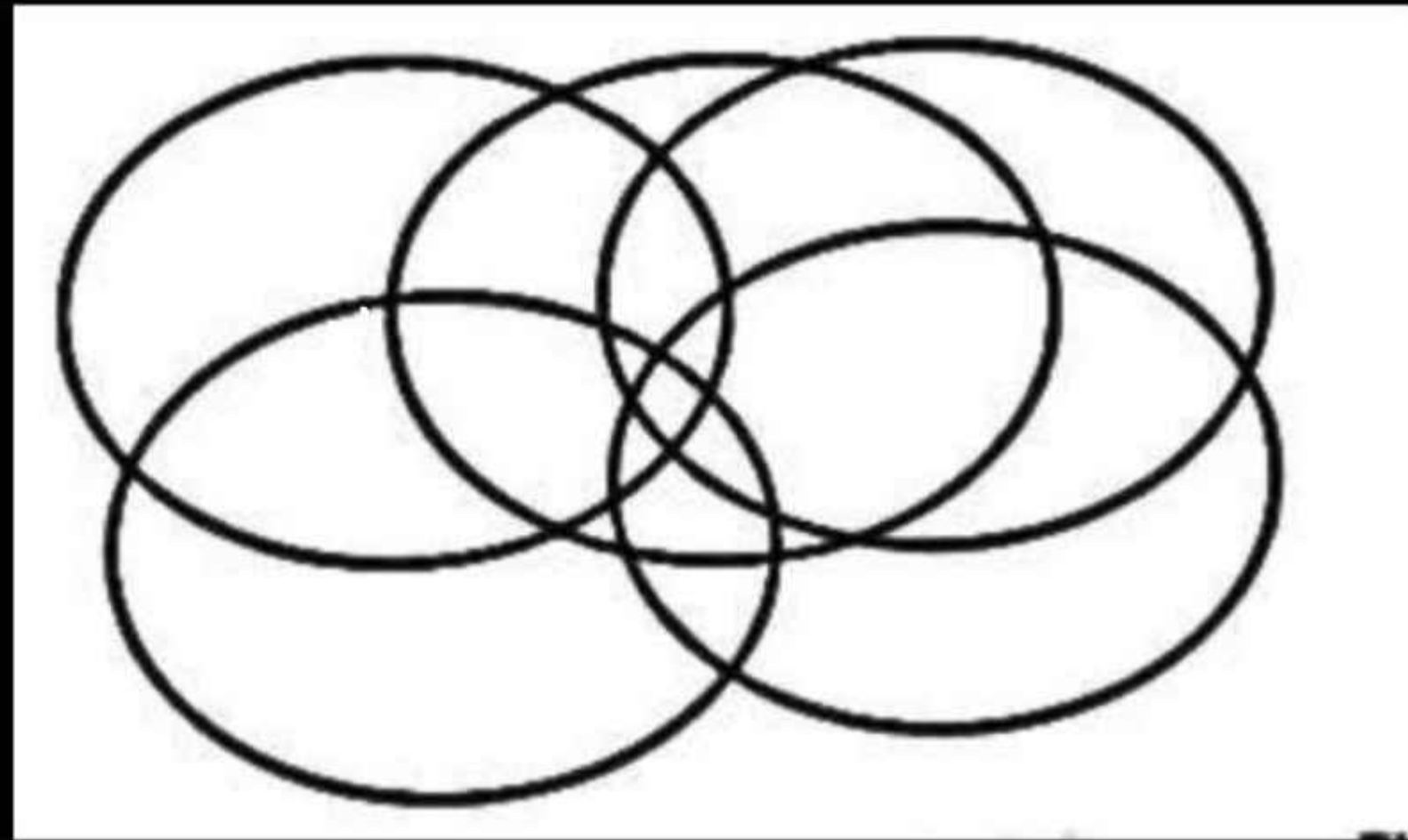
(b) 30

(c) 28

✓ (d) 31



91.



(a) 4

(b) 8

(c) 6

✓ (d) 5

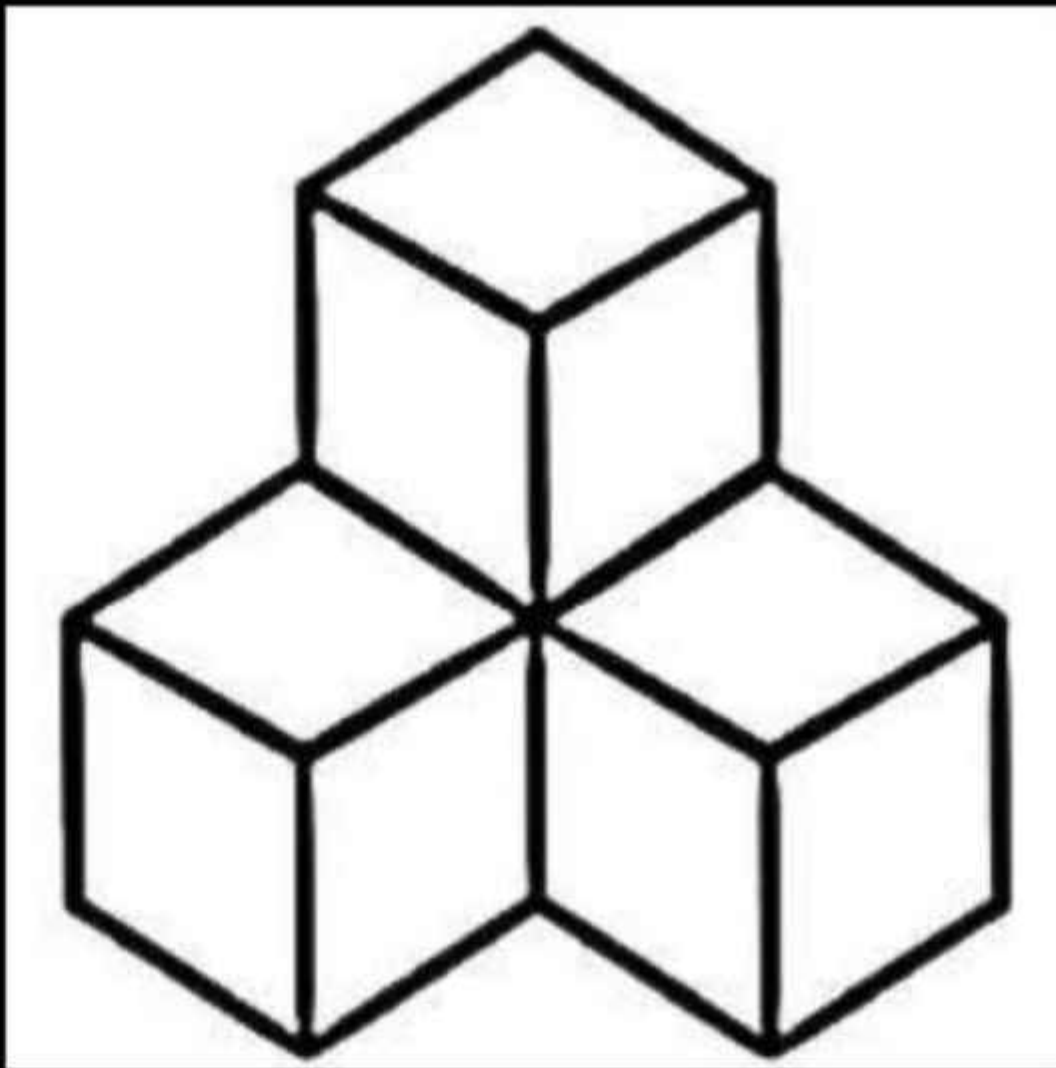
# Foundation Batch REASONING

**Direction : In each of the following questions tell the number of total cubes in the given figure.**

**निर्देश : निम्नलिखित प्रत्येक प्रश्न में दी गई आकृति में कुल घनों की संख्या बताइए**



92.



(a) 1

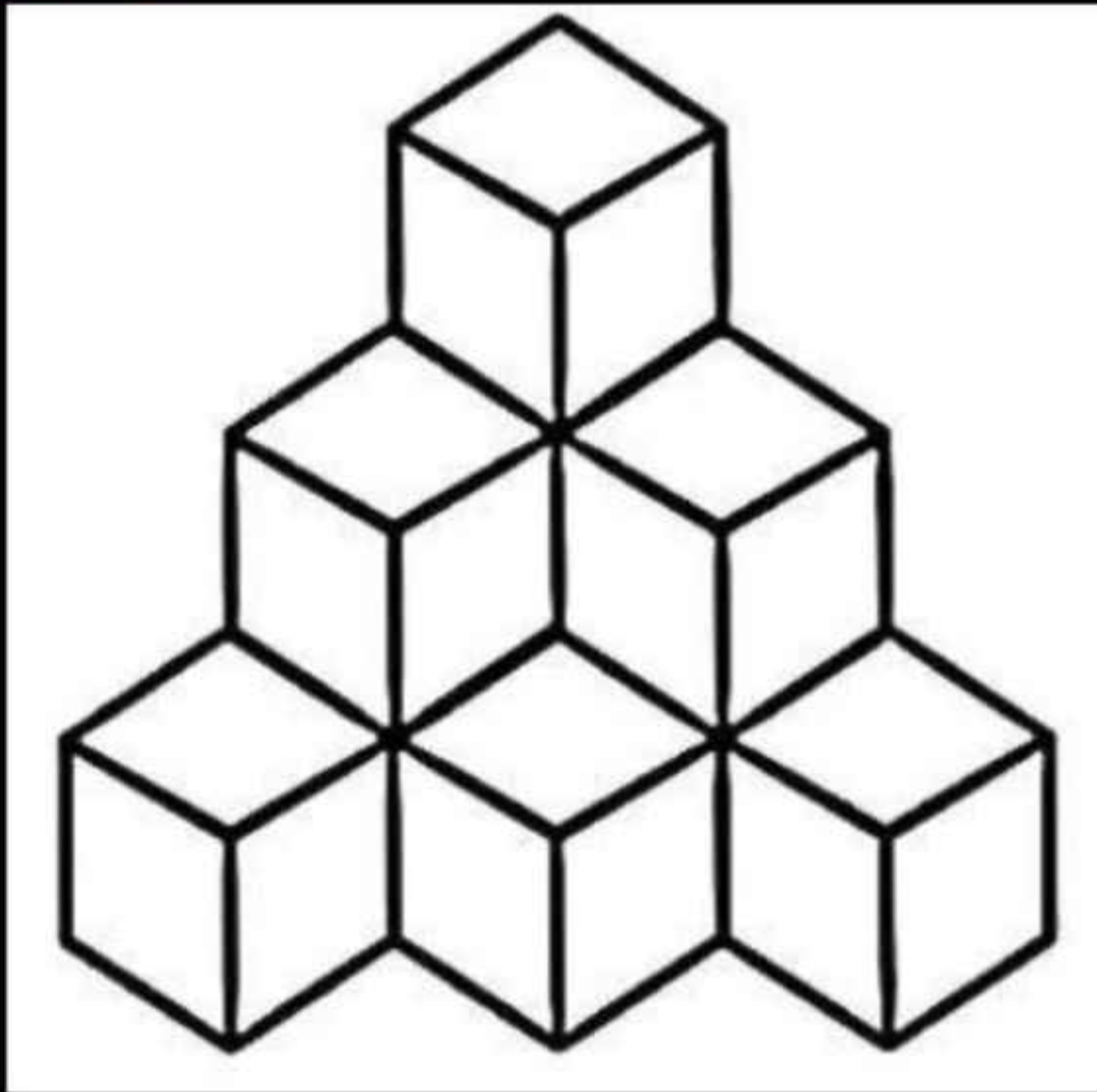
(b) 3

(c) 4

(d) 5



93.



(a) 10

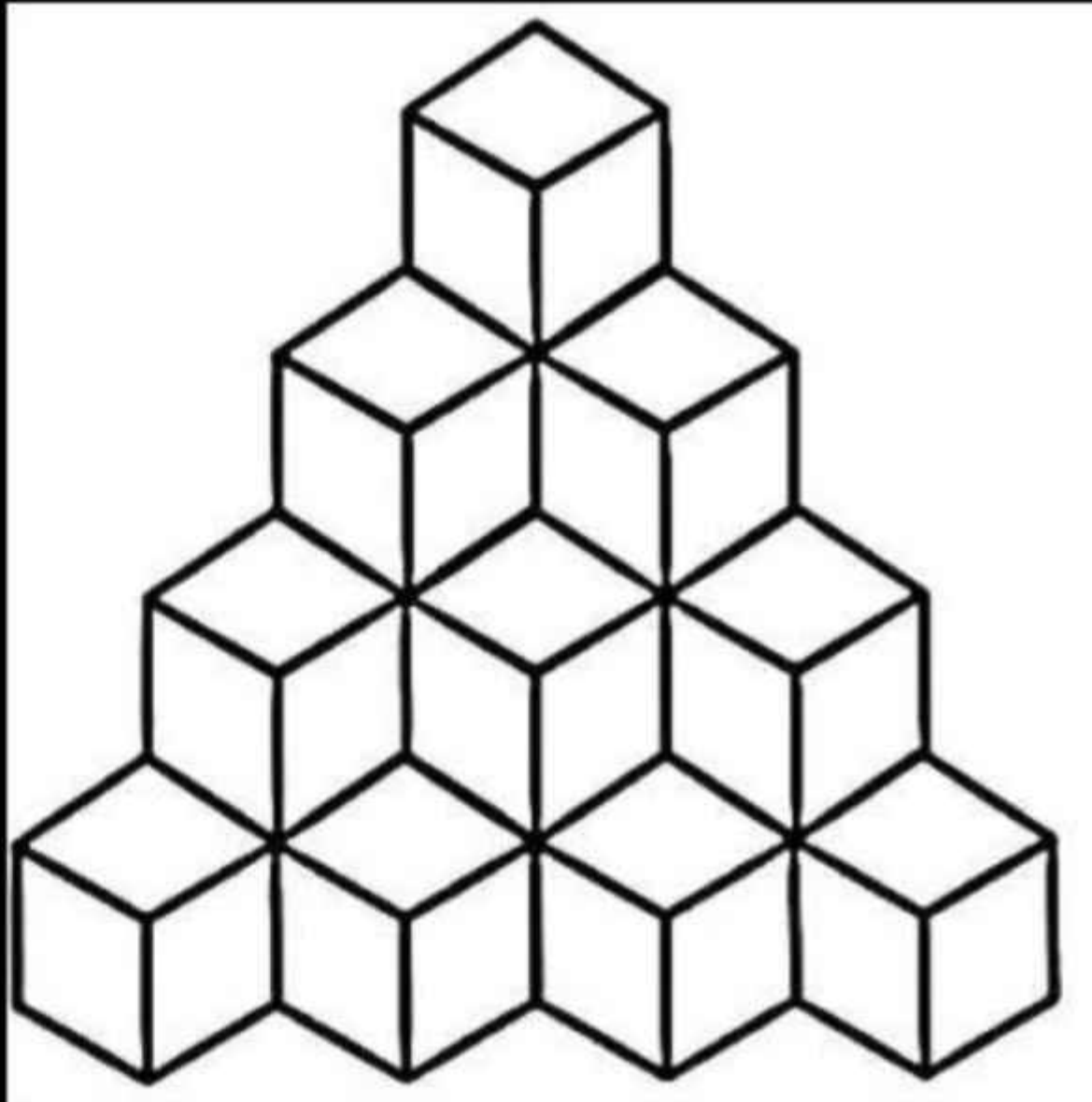
(b) 12

(c) 8

(d) 9



94.



(a) 14

(b) 18

(c) 20

(d) 10

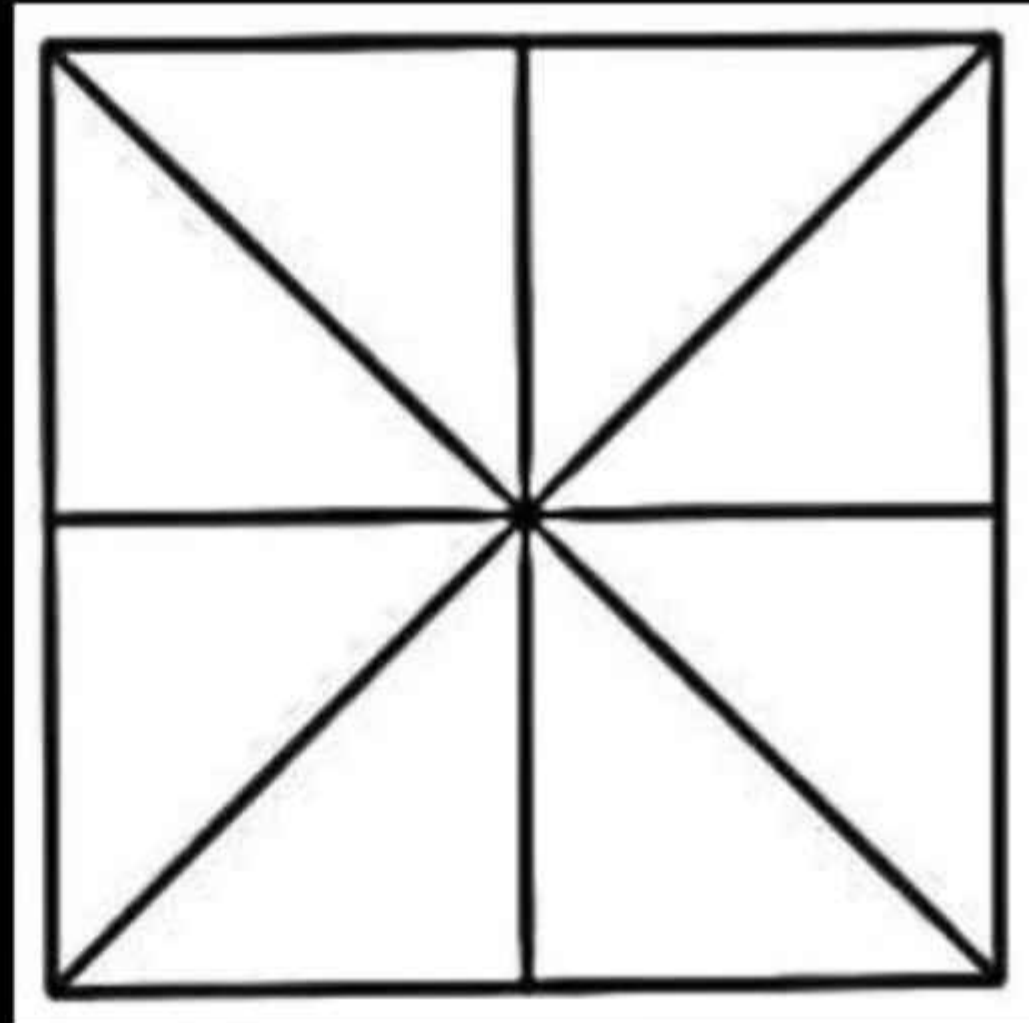
# Foundation Batch REASONING

**Direction : Find the minimum number of direct/straight required to make the given figure in each of the questions.**

**निर्देश : प्रत्येक प्रश्न में दी गई आकृति बनाने के लिए आवश्यक न्यूनतम सरल / सीधी रेखाओं की संख्या ज्ञात करो।**



95.



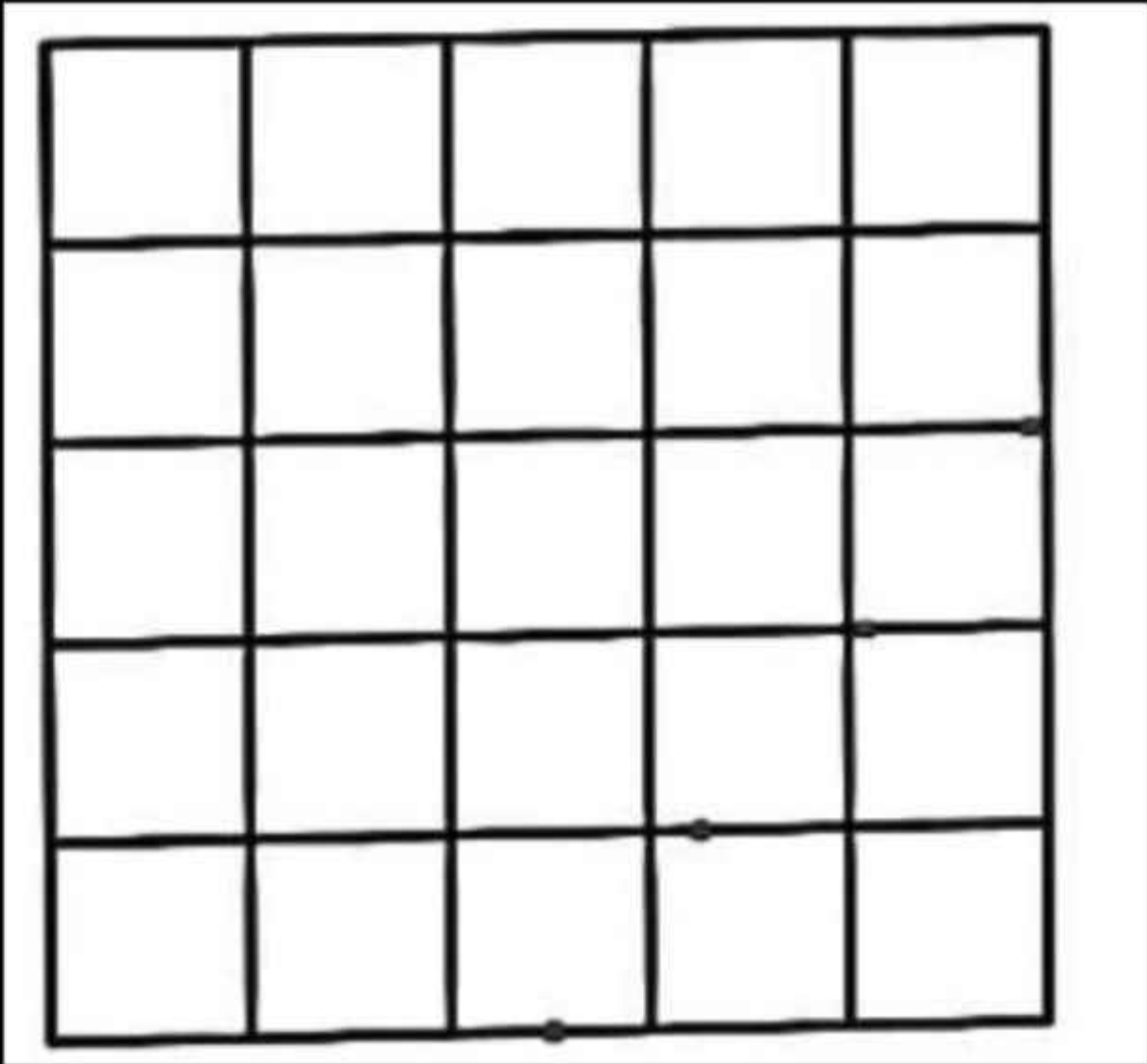
(a) 7

✓ (b) 8

(c) 9

(d) 6

96.



(a) 10

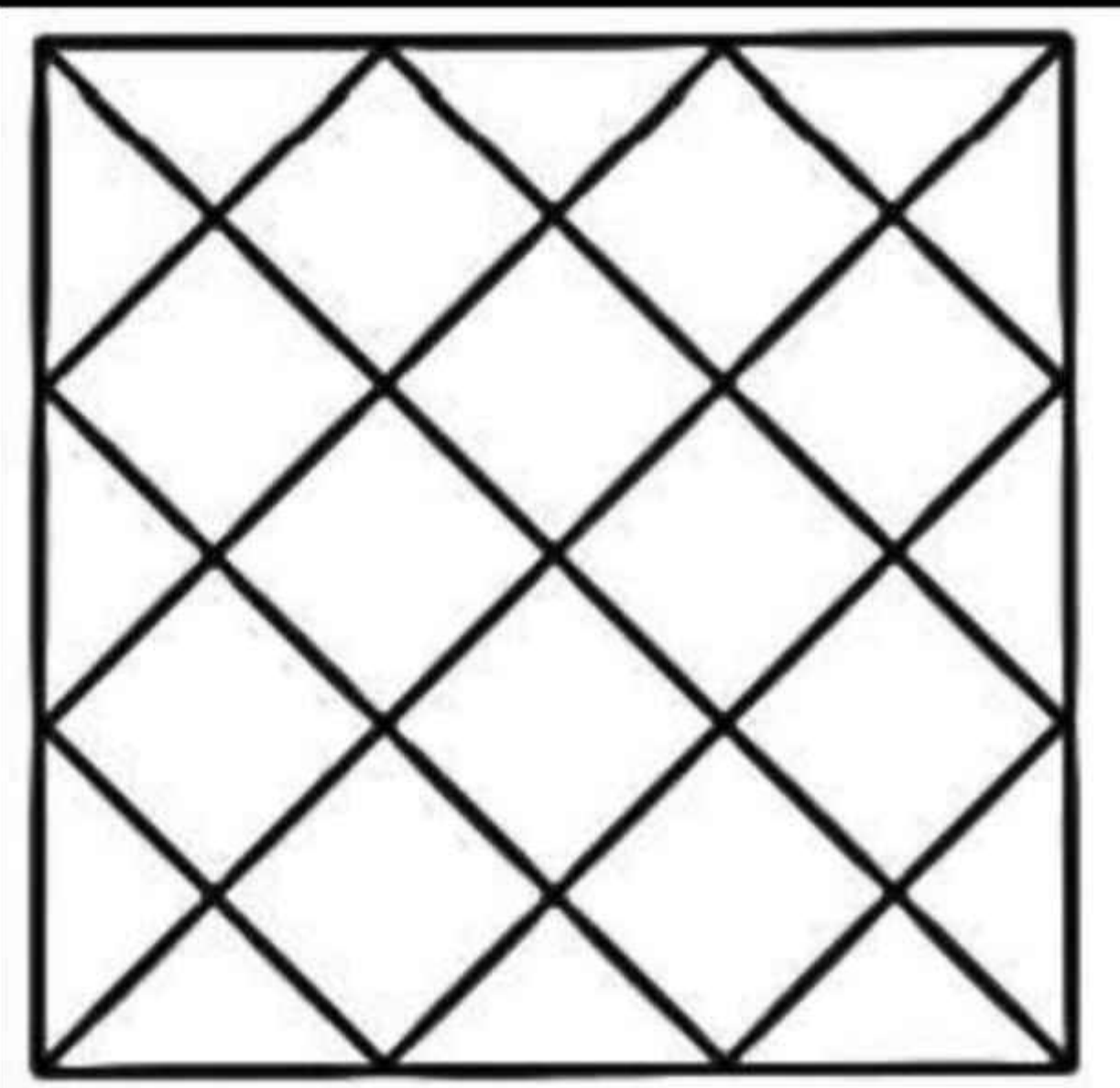
(b) 11

✓ (c) 12

(d) 13



97.



✓ (a) 14

(b) 15

(c) 16

(d) 17