Hannah wanted to divide a number by 7. She used a calculator, but pressed the wrong button and multiplied by 7 instead. Her answer was 637.

What should it have been?

- 4459
- 91
- 13
- None of these

Juanita knows that a sheet of paper is 0.21 mm thick.

She tries to imagine a stack of one million sheets of that paper.

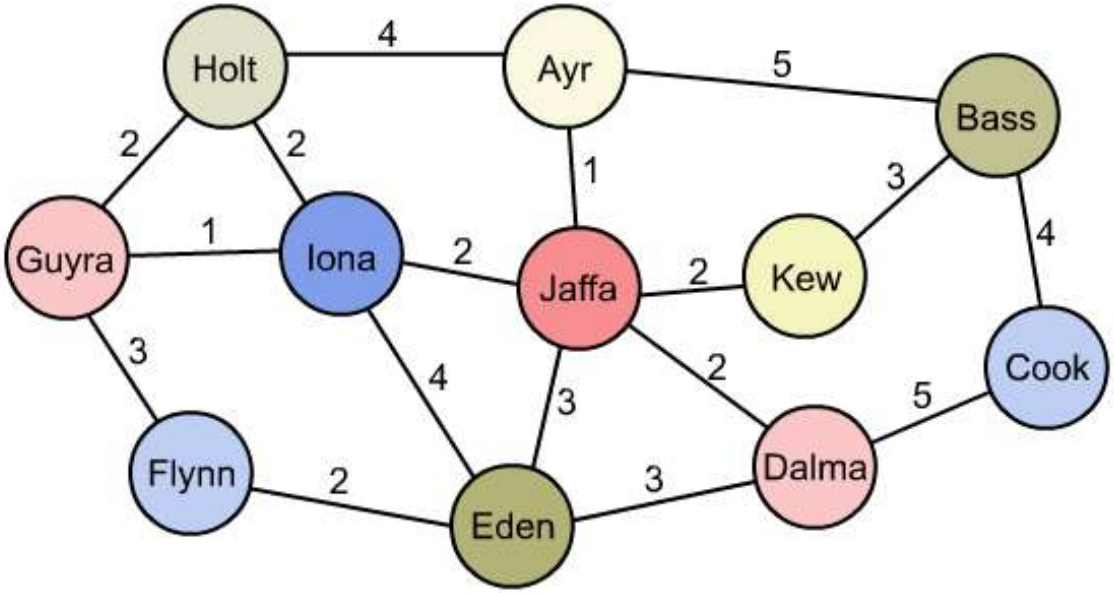
What would be the height of the stack?

- 0.21 m
- 2.1 m
- 21 m
- 210 m

The diagram shows a map of the underground train stations in a large city.

The distance between stations is recorded on the map. All distances are in kilometres.

Trains stop for 2 minutes at each station and travel at an average speed of 2 kilometres every 3 minutes.



(Not to scale)

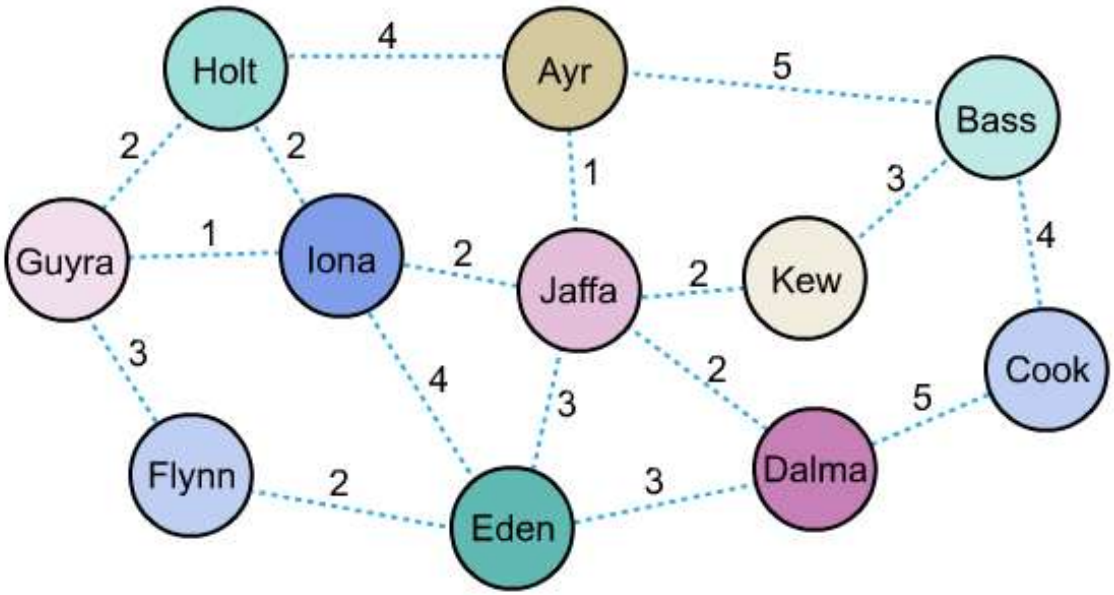
What distance will Pierre travel from Kew to Guyra if his train passes through Jaffa, Eden and Flynn?

- 5 km
- 10 km
- 15 km
- 21 km

The diagram shows a map of the underground train stations in a large city.

The distance between stations is recorded on the map. All distances are in kilometres.

Trains stop for 2 minutes at each station and travel at an average speed of 2 kilometres every 3 minutes.



(Not to scale)

Jasmine left Holt at 11:00 to travel to Dalma.

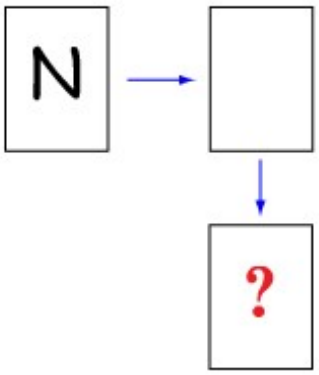
What is the earliest time she could be at Dalma?

- 11:06
- 11:09
- 11:13
- 11:16

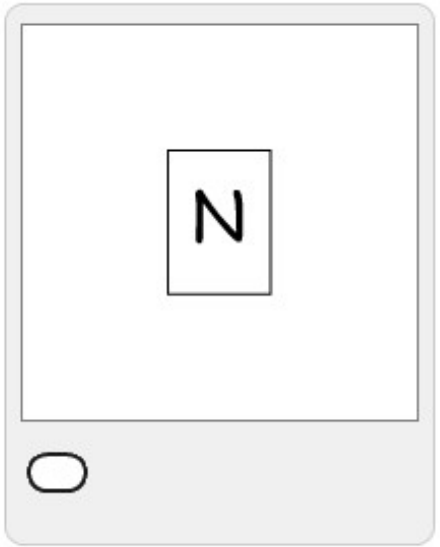
Robert writes the letter N on a piece of paper.

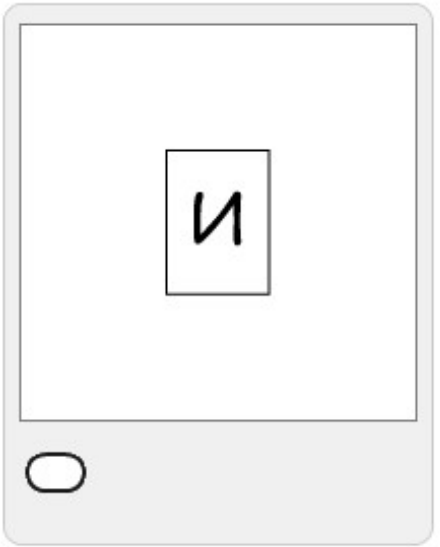
He flips the paper over its right side edge so that the blank side of the paper faces him.

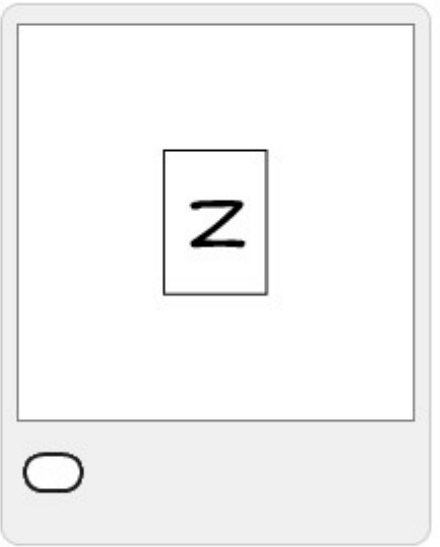
He then flips it over its bottom edge so that the side of the paper with the N faces him.

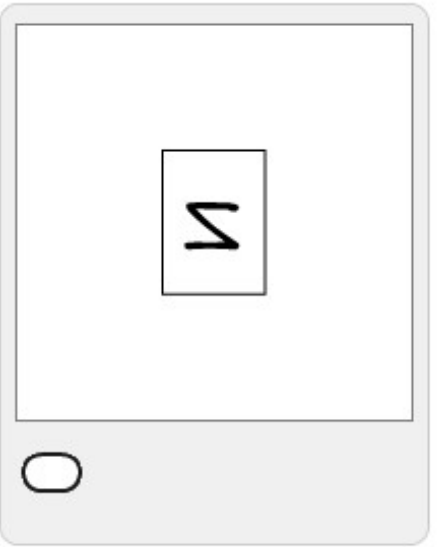


Which of the following does Robert see?







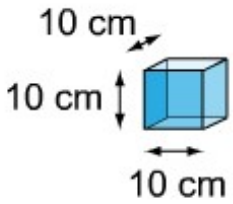


Eleni and Loukia share a lottery win of $5000.

Eleni's share is $500 more than Loukia's share.

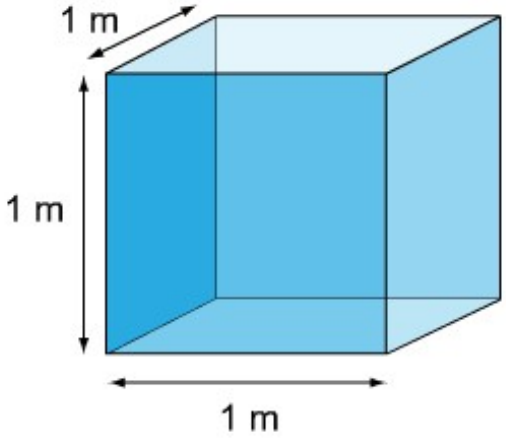
How much will Loukia receive?

- $2000
- $2250
- $2500
- $2750

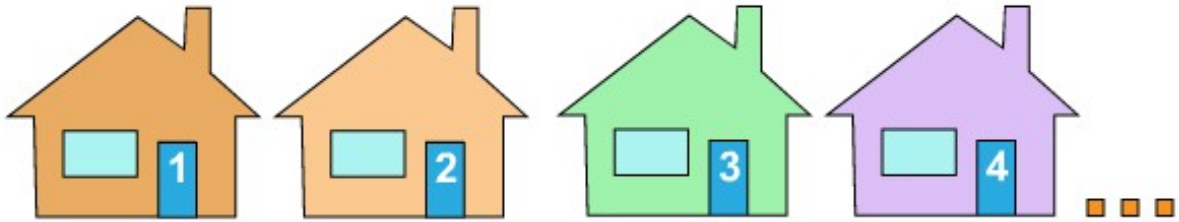


The container above holds 1 litre of water.

How much water will the container below hold?



- 10 L
- 100 L
- 1000 L
- 10000 L



There are 100 houses in a street, numbered from 1 to 100.

All of the houses in the street are to be numbered with silver numerals.

How many of the number 1 will be needed to complete the job?

- 10
- 11
- 20
- 21

Each number in the table is the remainder when the number at the beginning of the row and the number at the top of the column are multiplied and the product is divided by 7.

For example, 5 appears in row 2 column 6 because 2 × 6 = 12 and 7 divides into 12 once, with remainder 5. 6 appears in row 3, column 9 because 3 × 9 = 27 and 7 divides into 27 3 times with remainder 6.

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

Which number goes at P?

- 2
- 3
- 4
- 5

Each number in the table is the remainder when the number at the beginning of the row and the number at the top of the column are multiplied and the product is divided by 7.

For example, 5 appears in row 2 column 6 because 2 × 6 = 12 and 7 divides into 12 once, with remainder 5. 6 appears in row 3, column 9 because 3 × 9 = 27 and 7 divides into 27 3 times with remainder 6.

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

Which is the correct pattern for row 9?

- ○ 2 4 6 5 3 1 0 4 2
- ○ 2 4 6 1 3 5 0 2 4
- ○ 2 4 6 1 5 3 0 4 2
- ○ 2 4 6 3 5 1 0 2 4

Each number in the table is the remainder when the number at the beginning of the row and the number at the top of the column are multiplied and the product is divided by 7.

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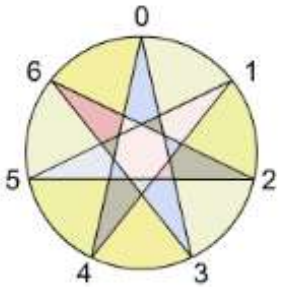
	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	0	1	2
2	2	4	6	1	3	5	0	2	4
3	3	6	2	5	1	4	0	3	6
4	4	1	5	2					
5									
6									
7									
8									
9									

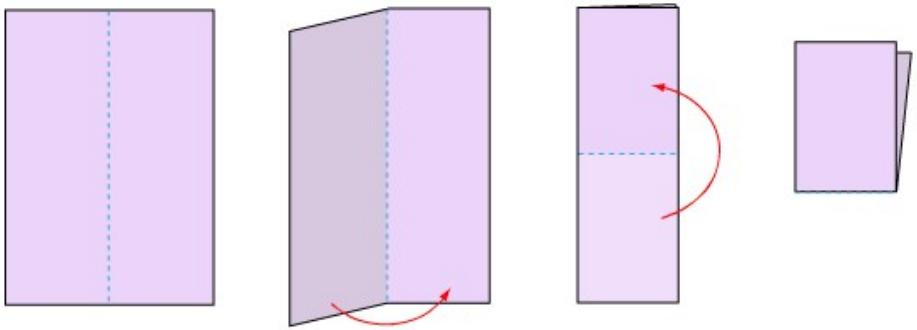
Different designs can be produced by joining the equally spaced dots on a circle in the order given in the different rows of the table.

Which row could produce this result?

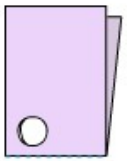


- row 2
- row 3
- row 5
- row 6

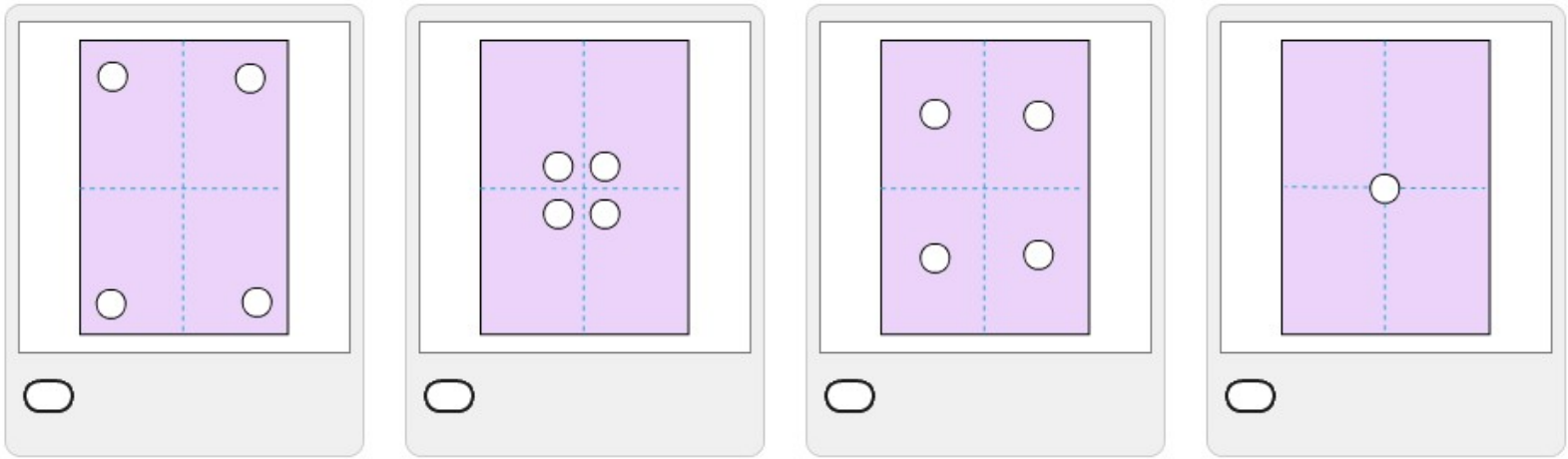
Brodee folded a sheet of paper in half and then folded it in half again.



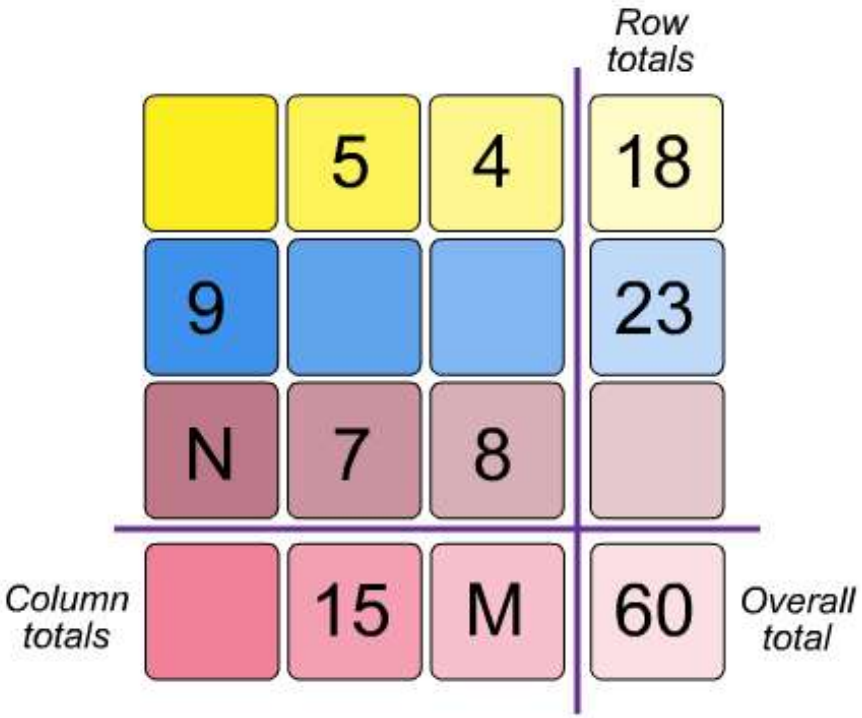
From the **bottom left corner** he punched out a circle.



What did his paper look like when he unfolded it?

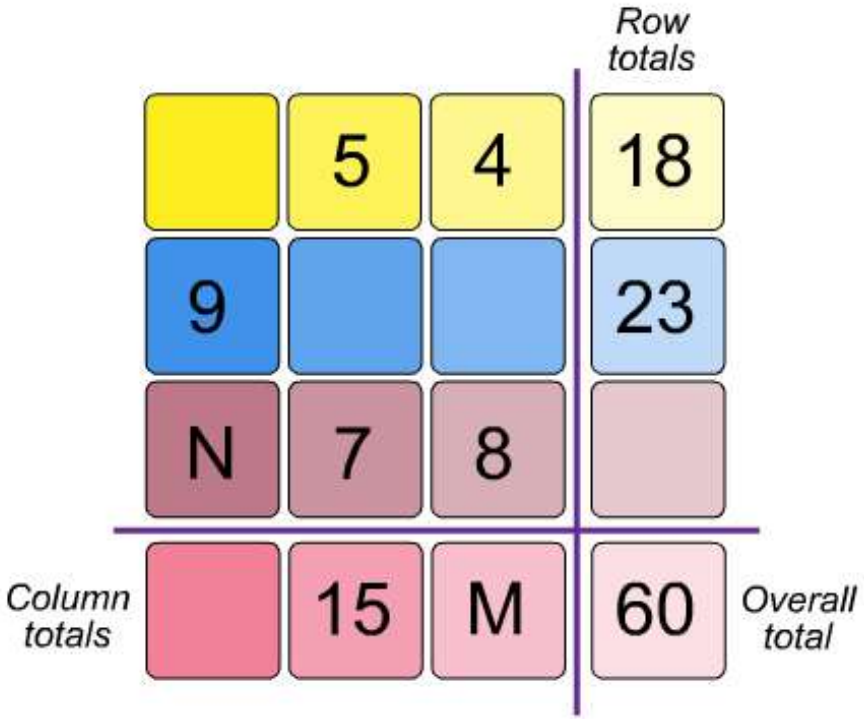


The diagram shows an addition square, but some of the numbers are missing.



The number at M is

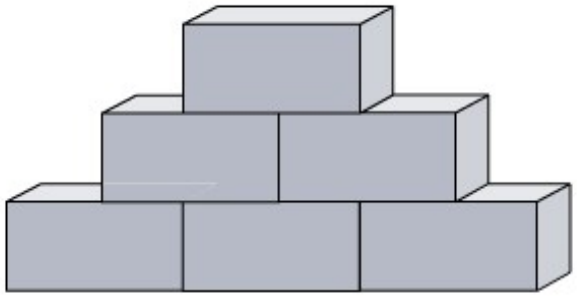
- 23
- 21
- 16
- 12



The diagram shows an addition square.

The number at N is

- 3
- 4
- 10
- 13

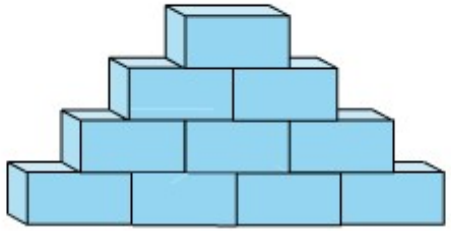


A wall has been built using concrete blocks.

The diagram shows a wall that is three rows high.

If, instead, a wall twice as high had been built following the same pattern, how many blocks would have been used?

- ⬭ 12
- ⬭ 15
- ⬭ 20
- ⬭ 21

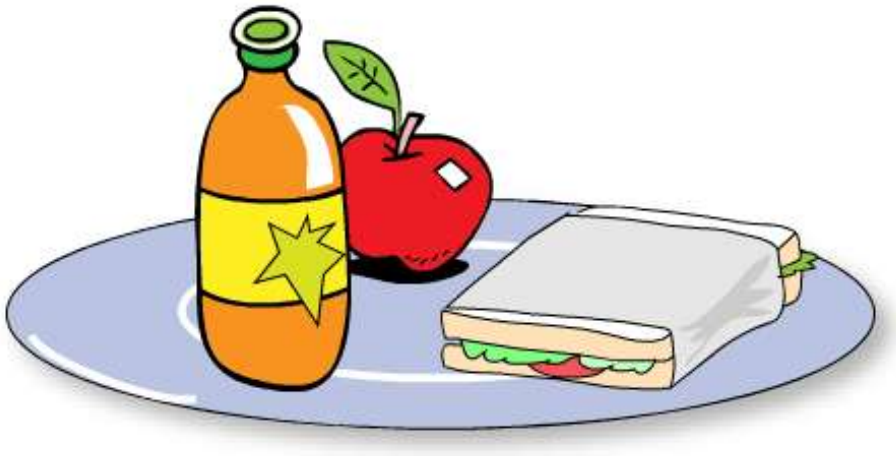


A wall has been built using concrete blocks.

The diagram shows a wall that is four rows high.

How many rows will there be in a wall that uses 66 blocks?

- 9
- 10
- 11
- 12



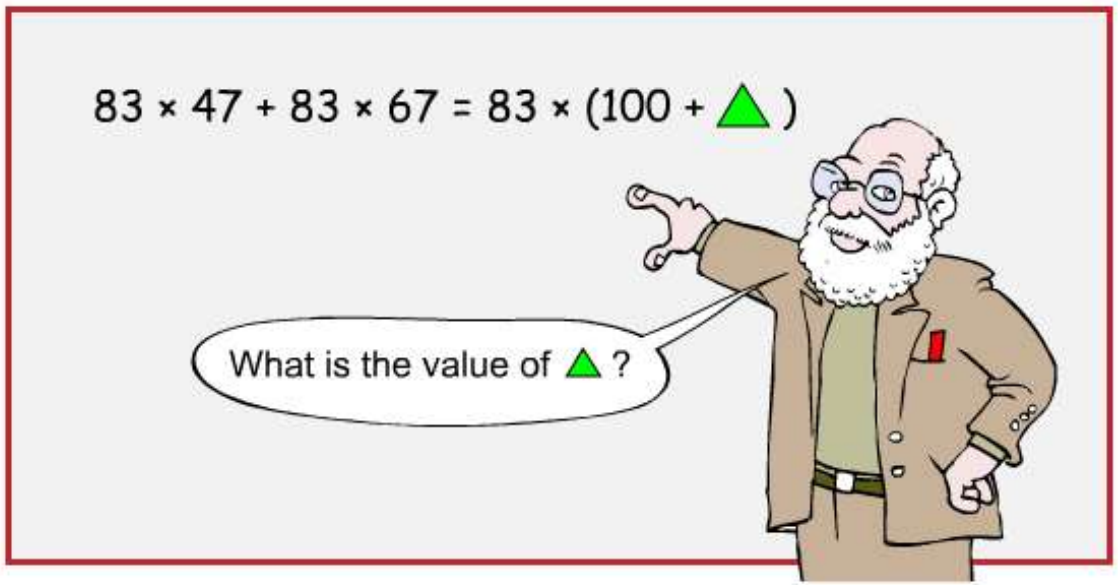
Diem spent $5.00 on her lunch.

She bought a sandwich, a bottle of juice and an apple.

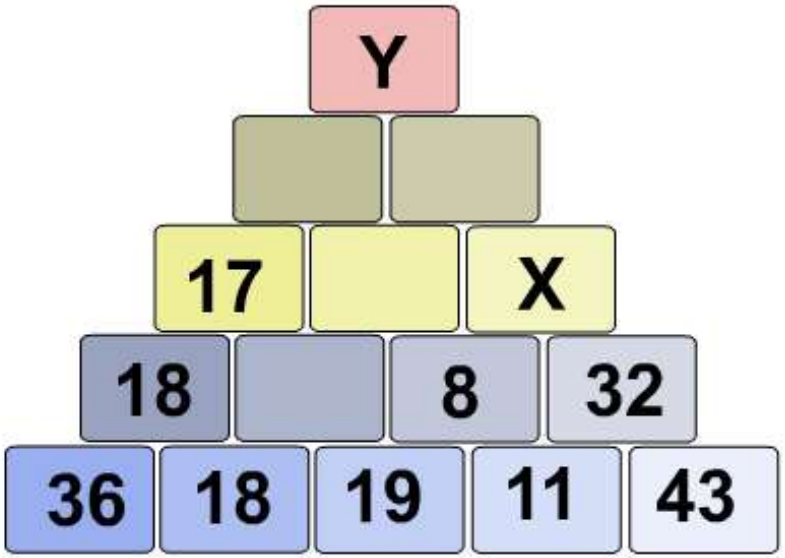
The sandwich cost 80c more than the juice and the juice cost 90c more than the apple.

How much did the apple cost?

- ⬭ 80c
- ⬭ 90c
- ⬭ $1.00
- ⬭ $1.20



- 14
- 20
- 57
- 3049

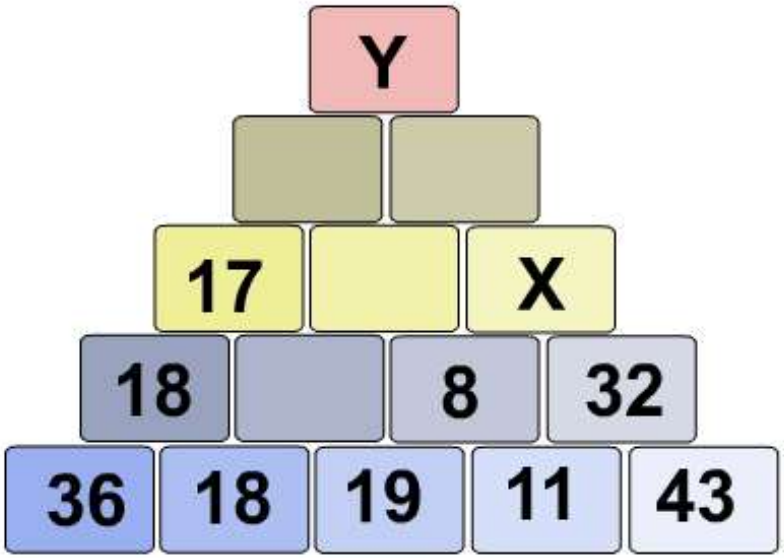


The numbers in these boxes follow a certain pattern.

Some of the entries are missing.

What is the value of X?

- 40
- 24
- 21
- 4



The numbers in these boxes follow a certain pattern.

Some of the entries are missing.

What is the value of Y?

- 3
- 4
- 7
- 8