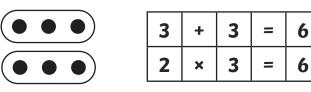
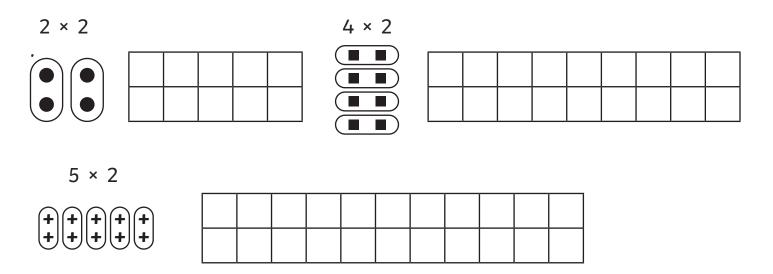
## 2, 5 and 10s Arrays

Arrays are pictures that help us see numbers. Number sentences are shown with dots and arranged into rows and columns.

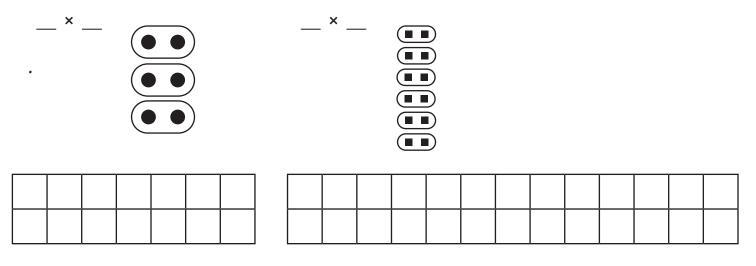
Here is an example:



1. Write the multiplication calculation and repeated addition for each array.



2. Write the multiplication calculation and repeated addition for each array.





3. Samir and Iyla are writing number sentences for this array.

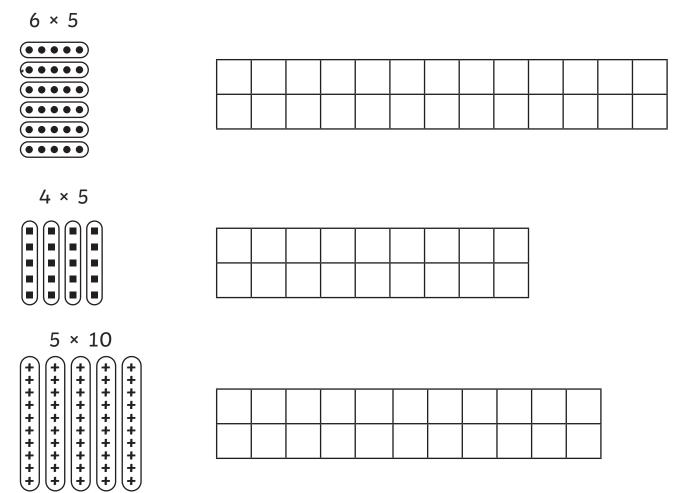
Who do you agree with? Why?

4. The value of an array is 10. What could the array be?

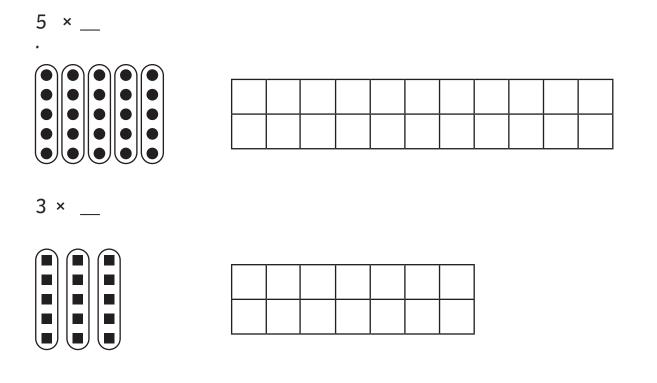
Draw 3 possible arrays to show this. Write the repeated addition and the multiplication calculation for each array.





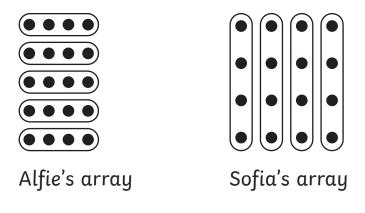
6. Write the repeated addition and multiplication calculation for each array.







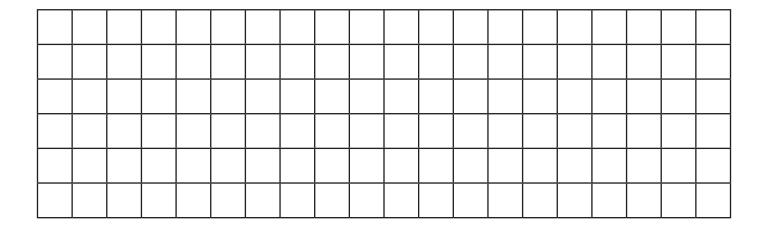
7. Alfie and Sofia are both drawing arrays to show 4 + 4 + 4 + 4 + 4 = 20 or  $5 \times 4 = 20$ .



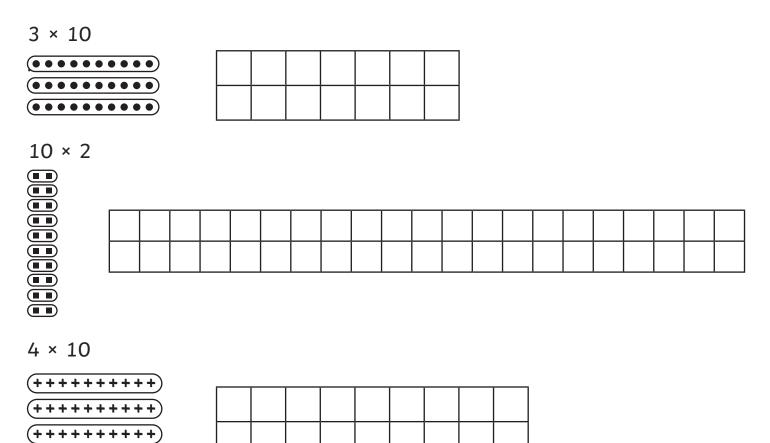
Who do you think has drawn the correct array? Why?

8. The value of an array is 20. What could the array be?

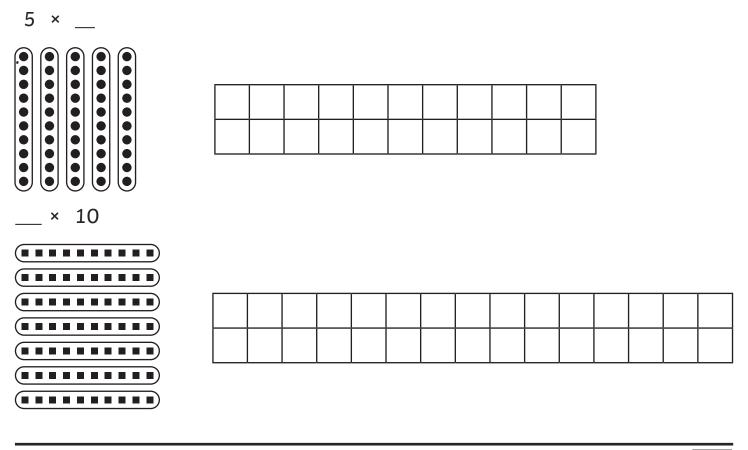
Draw 3 possible arrays to show this and write the repeated addition and the multiplication calculation for each array.







10. Write the repeated addition and multiplication calculation for each array.

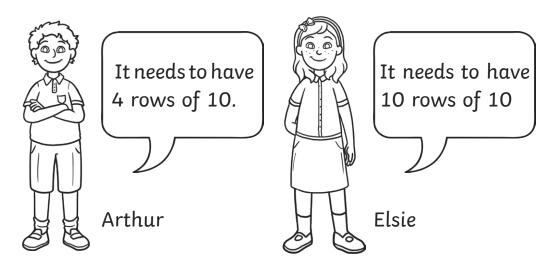




(+++++++++)



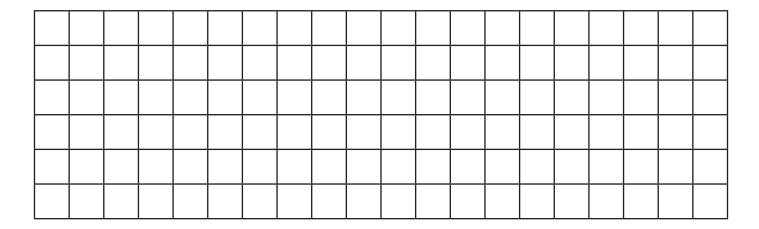
11. Elsie and Arthur are drawing an array for this number sentence: 10 + 10 + 10 + 10 = 40



Who do you agree with? Why?

12. The value of an array is 30. What could the array be?

Draw 2 possible arrays to show this and write the repeated addition and the multiplication calculation for each array.





## 2, 5 and 10s Arrays - Answers

1. Write the repeated addition and multiplication calculation for each array.

2 + 2 = 4	2 + 2 + 2 + 2 = 8	2 + 2 + 2 + 2 + 2 = 10
2 × 2 = 4	4 × 2 = 8	5× 2 = 10

2. Write the repeated addition and multiplication calculation for each array.

2 + 2 + 2 = 6 3 × 2 = 6 2 + 2 + 2 + 2 + 2 + 2 = 12 6 × 2 = 12

3. Samir and Iyla are writing number sentences for the array.

Who do you agree with? Iyla

Why? Because Iyla is explaining that 8 × 2 = 16.

Samir has added the number of rows and columns together to give him 16. But if Samir had double-checked his answer, he could have spotted his mistake that 8 + 2 doesn't equal 16.

4. The value of an array is 10. What could the array be?

Draw 3 possible arrays to show this and write the repeated addition and the multiplication calculation for each array.

2 + 2 + 2 + 2 + 2 = 10	5 + 5 = 10	1× 10 = 10
5 × 2 = 10	2 × 5 = 10	



5 + 5 + 5 + 5 + 5 + 5 = 30 6 x 5 = 30 5 × 10 = 50

5 + 5 + 5 + 5 = 20 4 × 5 = 20

6. Write the repeated addition and multiplication calculation for each array.

 5 + 5 + 5 + 5 = 25
 5 + 5 + 5 = 15

 5 × 5 = 25
 3 × 5 = 15

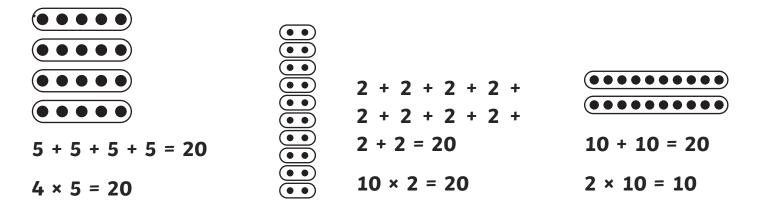
7. Alfie and Sofia are both drawing arrays to show 4 + 4 + 4 + 4 = 20 or  $5 \times 4 = 20$ 

Who do you think has drawn the correct array? Alfie

Why? Alfie has shown 5 rows of 4, which is the same as 4 + 4 + 4 + 4 + 4 = 20 or  $5 \times 4 = 20$ . Sofia has shown 4 rows of 4 = 16.

8. The value of an array is 20. What could the array be?

Draw 3 possible arrays to show this and write the repeated addition and multiplication calculation for each array.





10 + 10 + 10 = 3010 + 10 + 10 = 40 $3 \times 10 = 30$  $4 \times 10 = 40$ 

2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20

 $10 \times 2 = 20$ 

10. Write the repeated addition and multiplication calculation for each array.

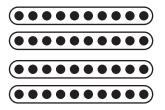
10 + 10 + 10 + 10 = 5010 + 10 + 10 + 10 + 10 + 10 + 10 = 705 × 10 = 507 × 10 = 70

11. Elsie and Arthur are drawing an array for this number sentence:

10 + 10 + 10 + 10 = 40

Who do you agree with? Arthur

Why? **Arthur is explaining that he will draw the array to show 4 × 10. This will look like this**:



Elsie's array would show 10 × 10. This would be incorrect as 10 × 10 = 100.

12. The value of an array is 30. What could the array be?

Write the repeated addition and multiplication calculation for each array.

		3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 30
10 + 10 + 10 = 30	5 + 5 + 5 + 5 + 5 + 5 = 30	10 × 3 = 30
3 × 10 = 30	6 × 5 = 30	



