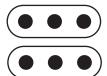
2, 5 and 10s Arrays

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

Here is an example:

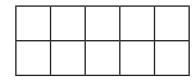


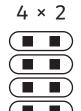
3	+	3	=	6
2	×	3	=	6

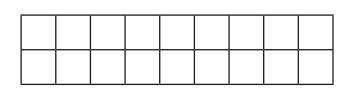
1. Write the multiplication calculation and repeated addition for each array.

 2×2



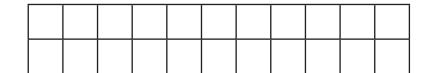






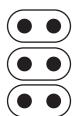
5 × 2





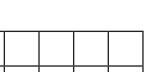
2. Write the multiplication calculation and repeated addition for each array.

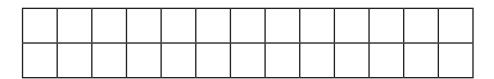
_ × _











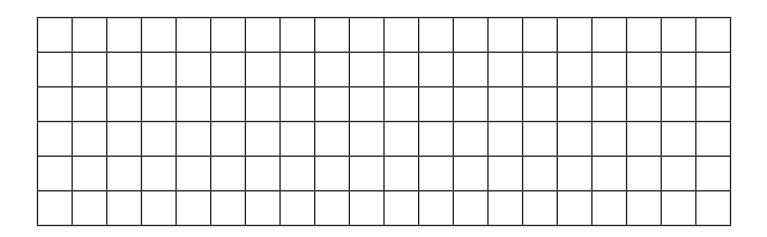
3. Samir and Iyla are writing number sentences for this array.



Who do	you agree w	ith? 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.



5. Write the repeated addition and multiplication calculation for each array. 6 × 5 4 × 5 5 × 10 ++++++++ +++++++++ +++++++++ ++++++++ ++++++++ 6. Write the repeated addition and multiplication calculation for each array. 5 × ___ 3 ×

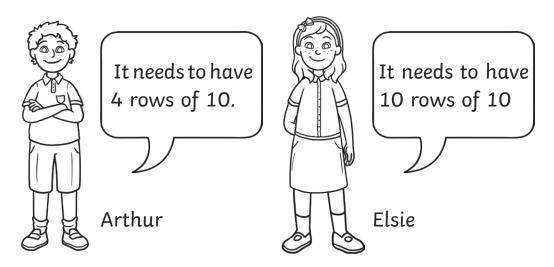
or 5) × 1	4 =	20.																	
						•														
Alfi	e's c	arra	y			Sof	ia's	arro	ay											
Who	o do	yo	u th	ink	has	dro	awn	the	cor	rect	arı	ay?) Wł	ıy?						
8. T	he v	/alu	e of	an	arr	ay i	s 20). W	'hat	cou	ıld t	he o	arra	y b	e?					
Dra mul												te t	he r	epe	atec	d ad	diti	on c	ınd	the
																			_	
																			 	
																				<u> </u>
							L						L]

7. Alfie and Sofia are both drawing arrays to show 4 + 4 + 4 + 4 + 4 = 20

9. Write the reped	ıted addition a	nd multip	lication	calcula	tion for	each array.
3 × 10						
10 2						
10 × 2						
					<u> </u>	
4 × 10						
(++++++++						
(++++++++						
++++++++						
(++++++++)						
10. Write the repe	ated addition o	ınd multi _l	plicatior	r calcula	tion fo	r each array.
5 ×						
× 10						
						

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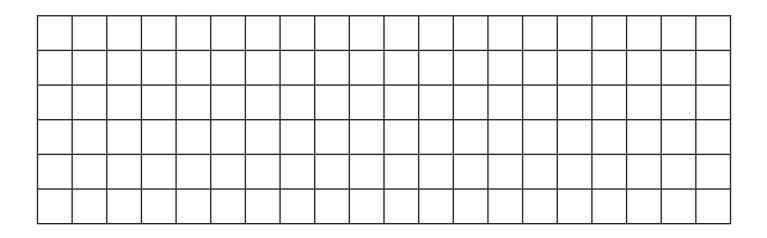
$$10 + 10 + 10 + 10 = 40$$



who do you agree w	ithe 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.

$$2 + 2 = 4$$

$$2 + 2 + 2 + 2 = 8$$

$$2 + 2 + 2 + 2 + 2 = 10$$

$$2 \times 2 = 4$$

$$4 \times 2 = 8$$

$$5 \times 2 = 10$$

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

$$3 \times 2 = 6$$

$$6 \times 2 = 12$$

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

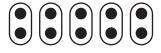
Who do you agree with? Iyla

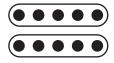
Why? Because Iyla is explaining that $8 \times 2 = 16$.

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.







$$5 + 5 = 10$$

$$5 \times 2 = 10$$

$$2 \times 5 = 10$$

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

$$5 + 5 + 5 + 5 + 5 + 5 = 30$$

$$6 \times 5 = 30$$

$$5 \times 10 = 50$$

$$5 + 5 + 5 + 5 = 20$$

$$4 \times 5 = 20$$

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

$$5 + 5 + 5 + 5 + 5 = 25$$

$$5 + 5 + 5 = 15$$

$$5 \times 5 = 25$$

$$3 \times 5 = 15$$

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? Alfie

Why? Alfie has shown 5 rows of 4, which is the same as 4 + 4 + 4 + 4 + 4 + 4 = 20 or 5 × 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.

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

$$3 \times 10 = 30$$

$$4 \times 10 = 40$$

$$10 \times 2 = 20$$

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

$$10 + 10 + 10 + 10 + 10 + 10 + 10 = 70$$

$$5 \times 10 = 50$$

$$7 \times 10 = 70$$

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

Who do you agree with? Arthur

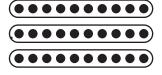
Why? Arthur is explaining that he will draw the array to show 4 × 10. This will look like this:



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

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

Write the repeated addition and multiplication calculation for each array.



$$3 \times 10 = 30$$

$$6 \times 5 = 30$$