

Arrays

Parents Notes

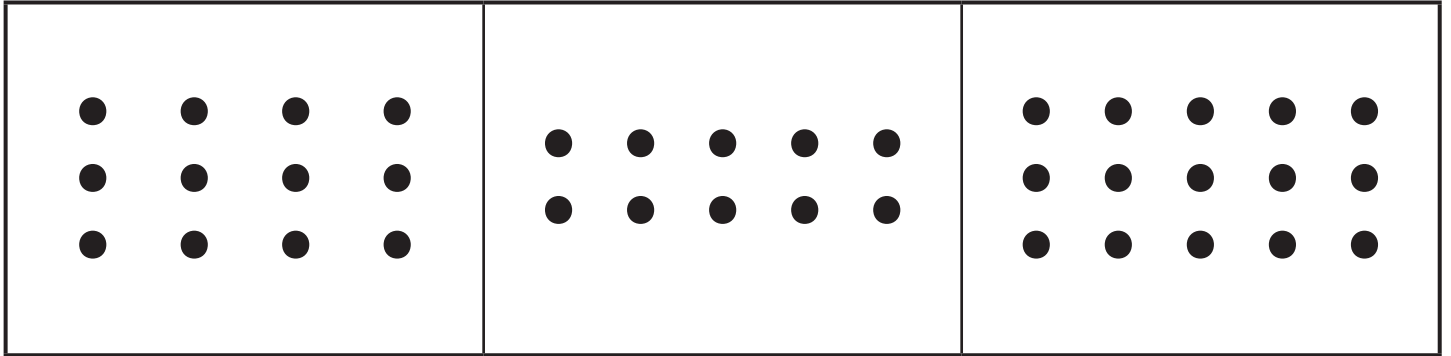
Children in year 2 learn about multiplication and division. They are taught that multiplication is the same as repeated addition – for example 3×5 is the same as $5 + 5 + 5$ or $3 + 3 + 3 + 3 + 3$.

Children often use the concept of ‘arrays’ to help them learn about multiplication. An array is a visual representation of the multiplication process, usually using dots arranged into rows and columns.

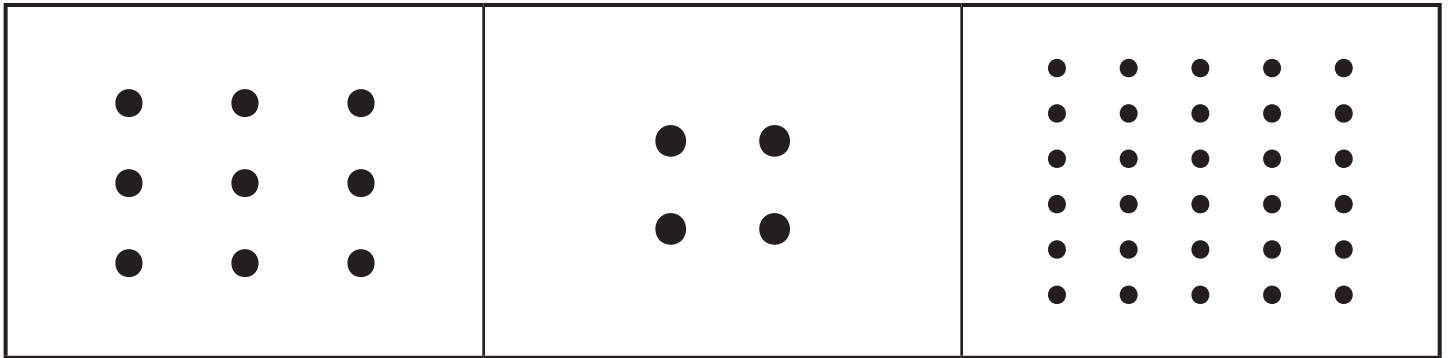
Children quickly learn that the number of rows multiplied by the number of columns equals the total number of dots. They can also use arrays for division, by grouping the dots into their rows or columns.

Arrays

Write a multiplication sentence for each array.

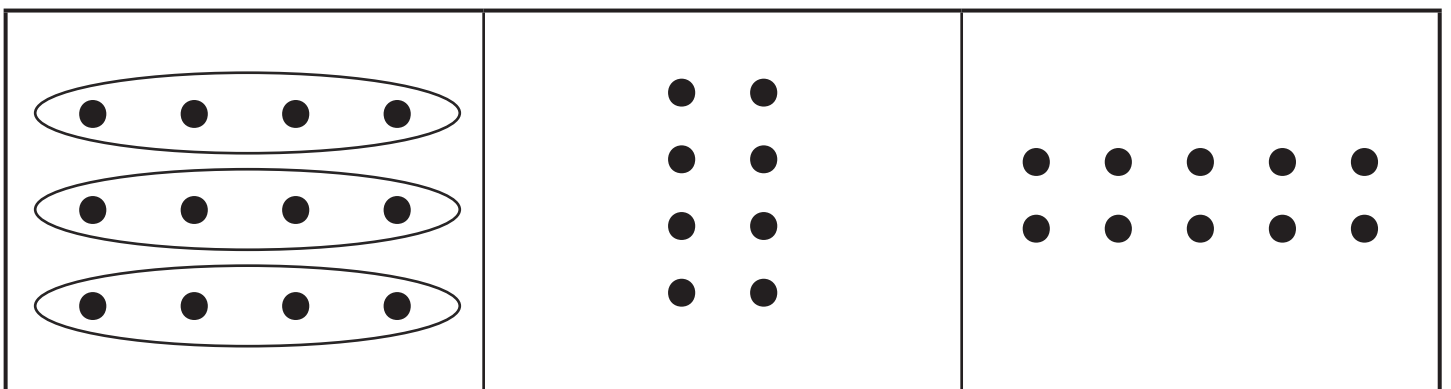


$3 \times 4 = 12$ or $4 \times 3 = 12$		
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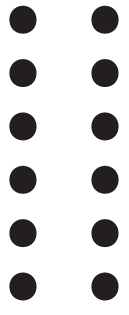
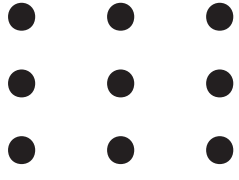
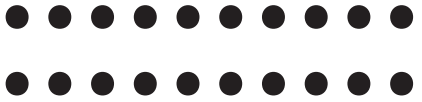


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Write a division sentence for each array.



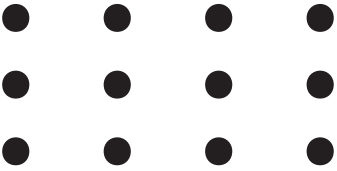
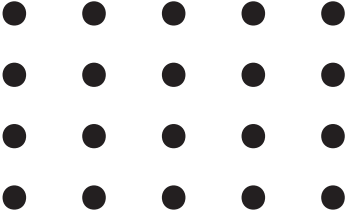
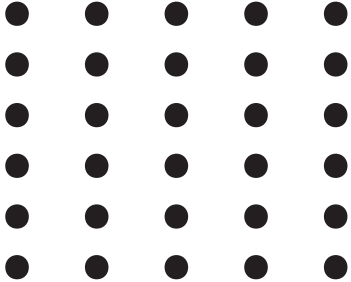
$12 \div 3 = 4$ or $12 \div 4 = 3$		
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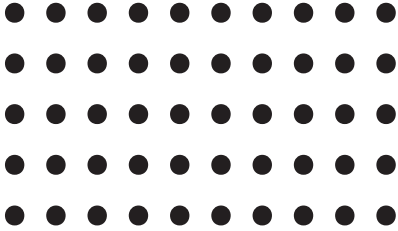
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Arrays

Write two multiplication sentences for each array.

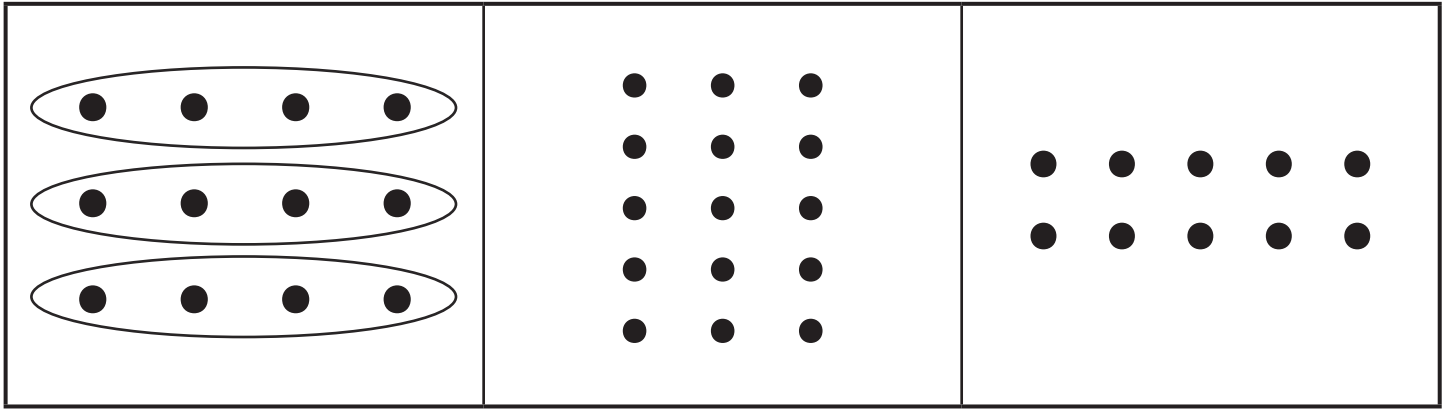
		
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$3 \times 4 = 12$ $4 \times 3 = 12$		
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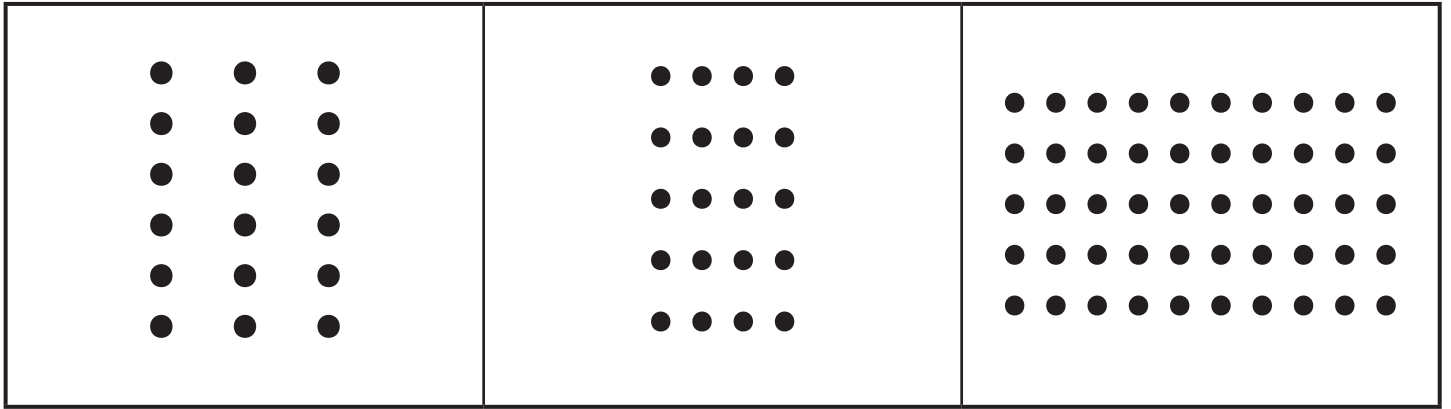
		
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Write two division sentences for each array.



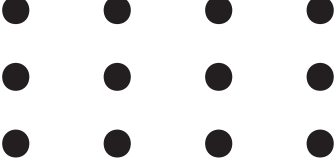
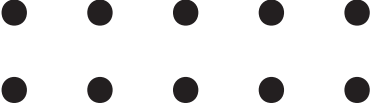
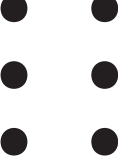
$12 \div 3 = 4$ $12 \div 4 = 3$		
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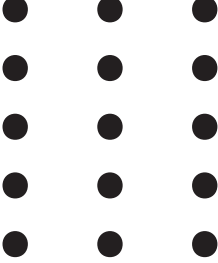

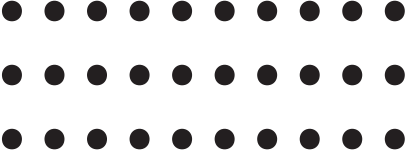
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Arrays

Write four number sentences for each array.

		
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$3 \times 4 = 12$ $4 \times 3 = 12$ $12 \div 3 = 4$ $12 \div 4 = 3$		
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Draw arrays for these number sequences.

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$6 \times 3 = 18$

$5 \times 2 = 10$

$3 \times 1 = 3$

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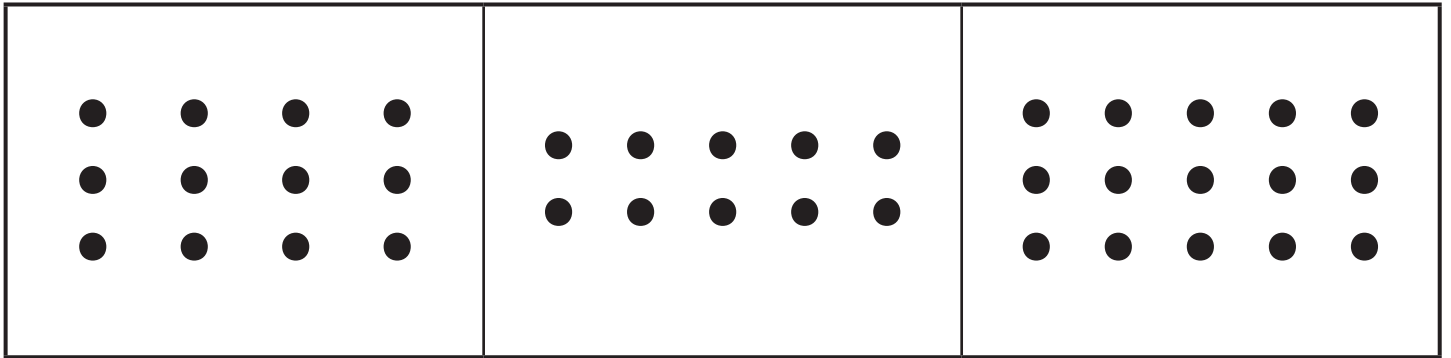
$4 \times 10 = 40$

$2 \times 2 = 4$

$7 \times 5 = 35$

Arrays

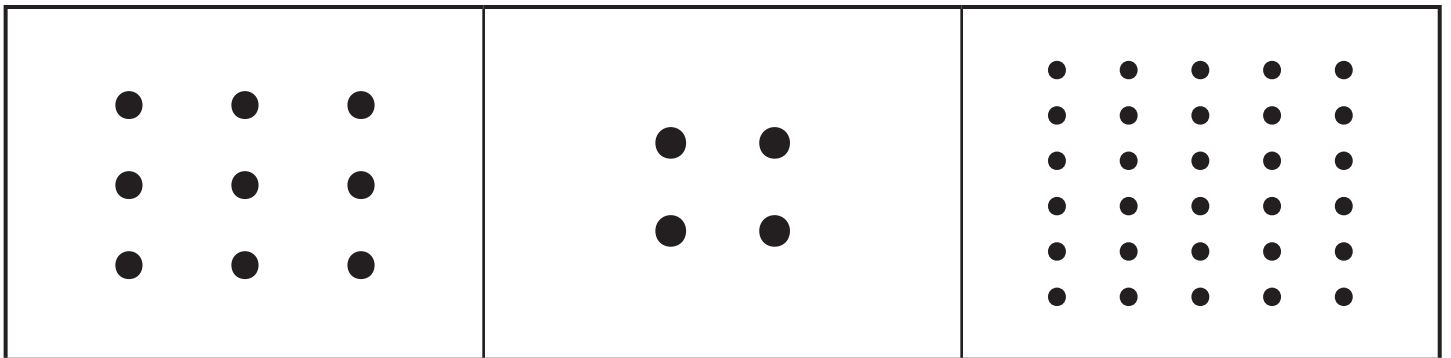
Write a multiplication sentence for each array.



$3 \times 4 = 12 \text{ or } 4 \times 3 = 12$

$2 \times 5 = 10 \text{ or } 5 \times 2 = 10$

$3 \times 5 = 15 \text{ or } 5 \times 3 = 15$

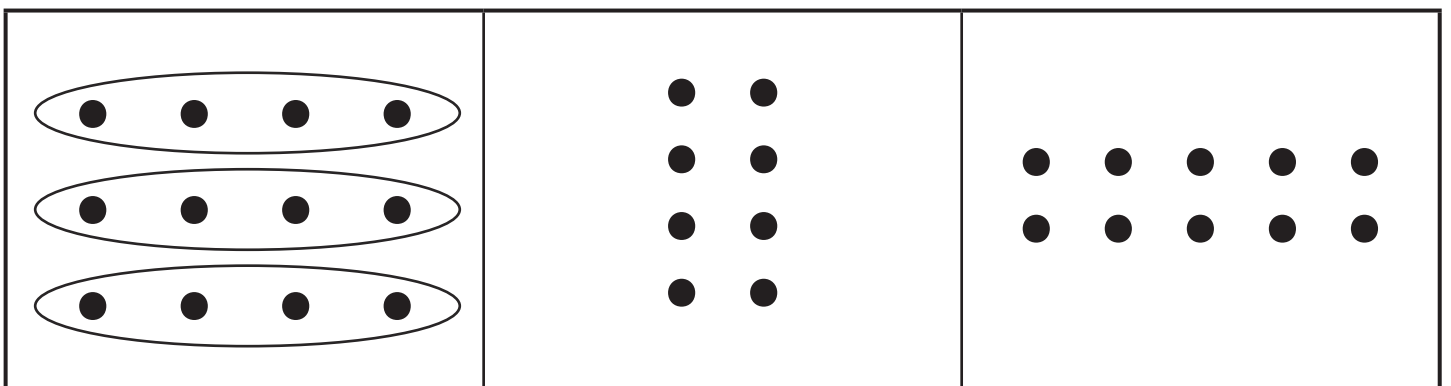


$3 \times 3 = 9$

$2 \times 2 = 4$

$6 \times 5 = 30 \text{ or } 5 \times 6 = 30$

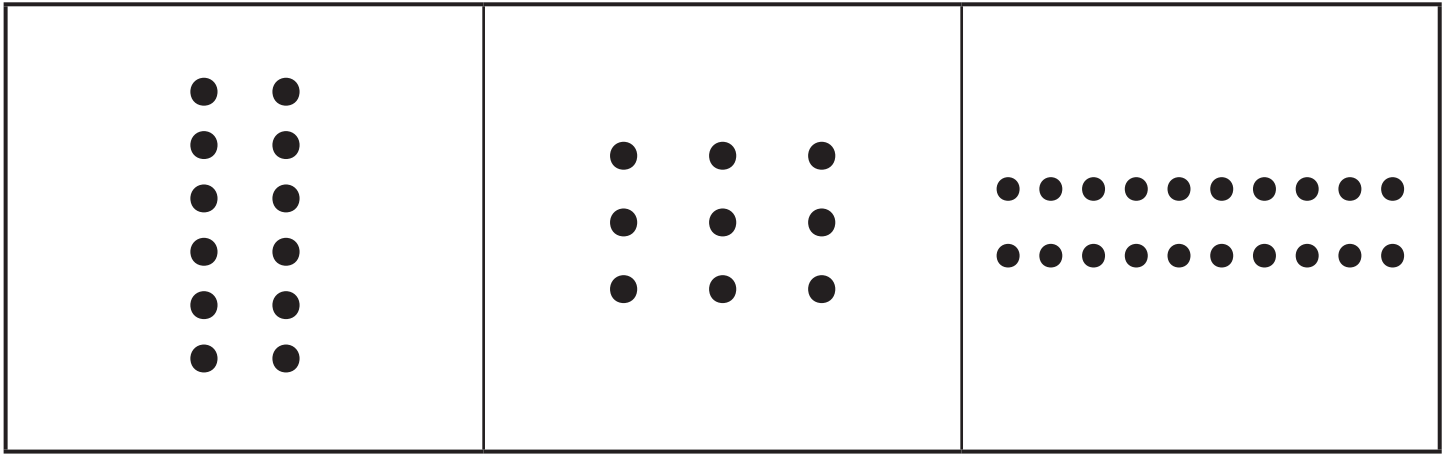
Write a division sentence for each array.



$12 \div 3 = 4 \text{ or } 12 \div 4 = 3$

$8 \div 4 = 2 \text{ or } 8 \div 2 = 4$

$10 \div 2 = 5 \text{ or } 10 \div 5 = 2$



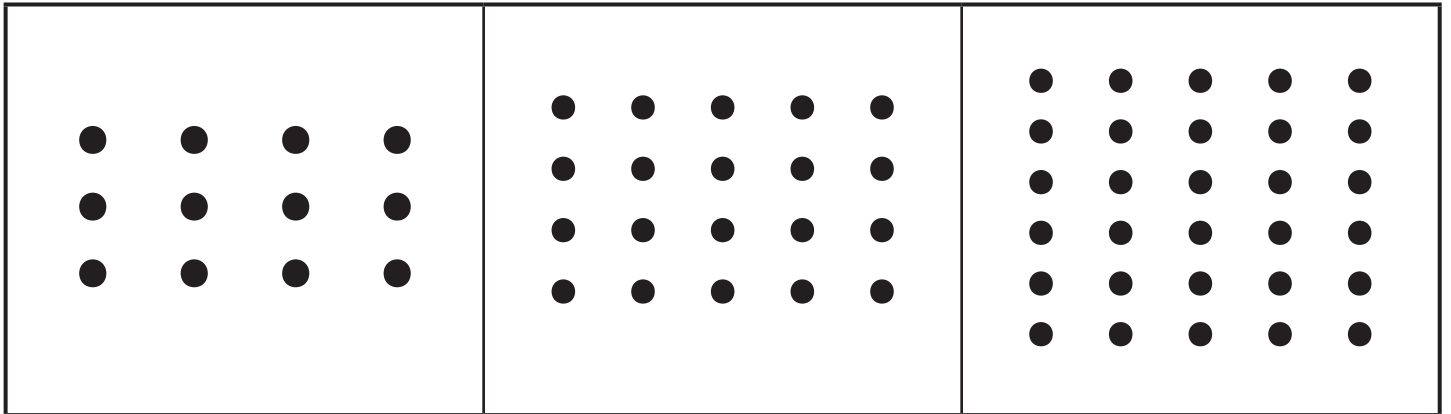
$$12 \div 6 = 2 \text{ or } 12 \div 2 = 6$$

$$9 \div 3 = 3$$

$$20 \div 2 = 10 \text{ or } 20 \div 10 = 2$$

Arrays

Write two multiplication sentences for each array.



$3 \times 4 = 12$

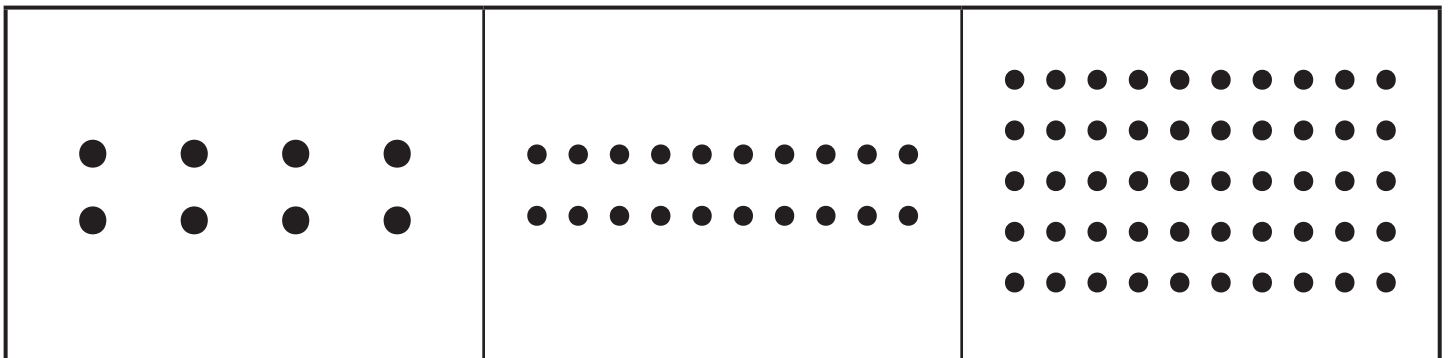
$4 \times 3 = 12$

$20 \div 4 = 5$

$20 \div 5 = 4$

$30 \div 6 = 5$

$30 \div 5 = 6$



$8 \div 4 = 2$

$8 \div 2 = 4$

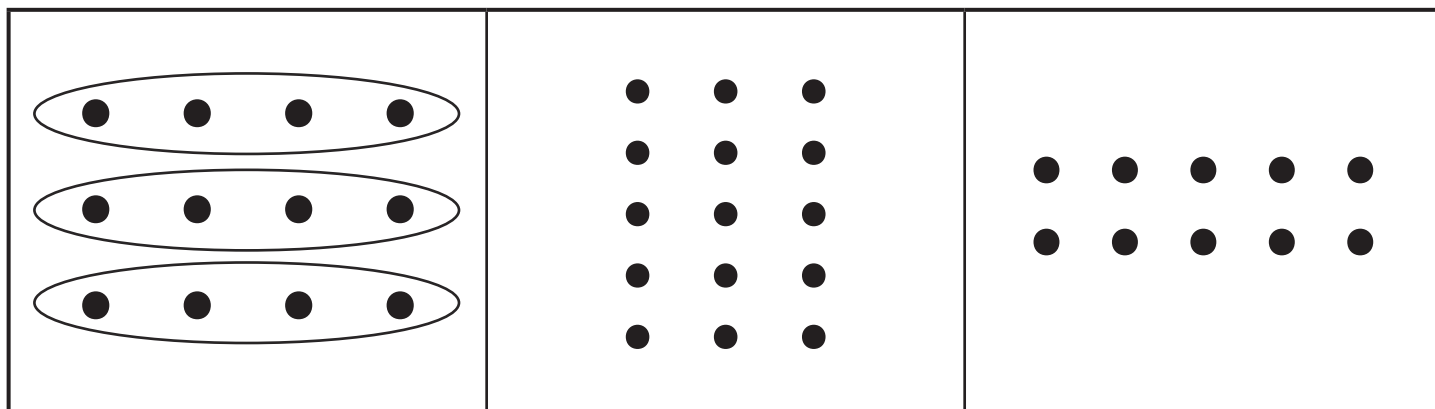
$20 \div 2 = 10$

$20 \div 10 = 2$

$50 \div 5 = 10$

$50 \div 10 = 5$

Write two division sentences for each array.



$12 \div 3 = 4$

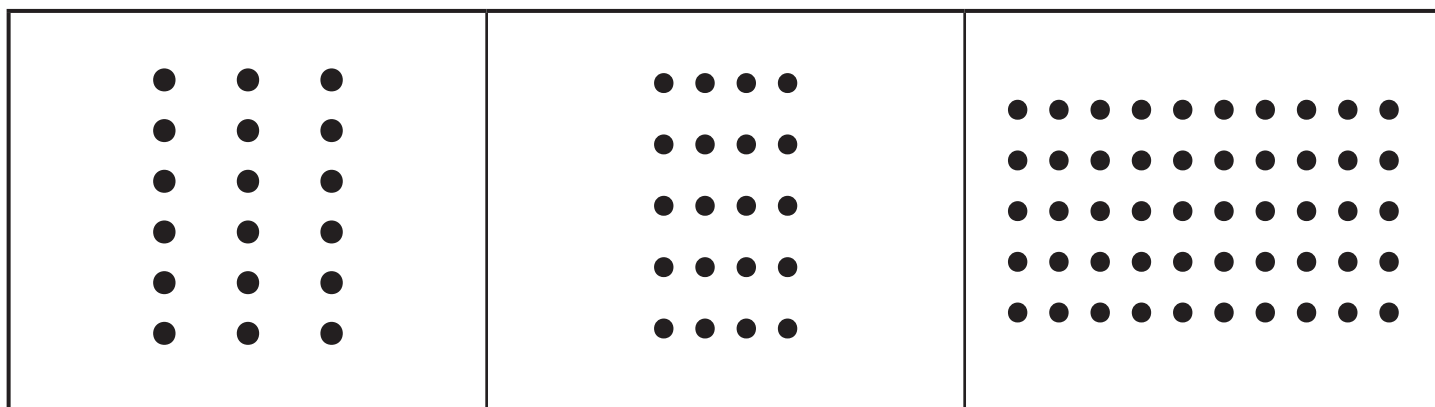
$12 \div 4 = 3$

$15 \div 5 = 3$

$15 \div 3 = 5$

$10 \div 2 = 5$

$10 \div 5 = 2$



$18 \div 6 = 3$

$18 \div 3 = 6$

$20 \div 5 = 4$

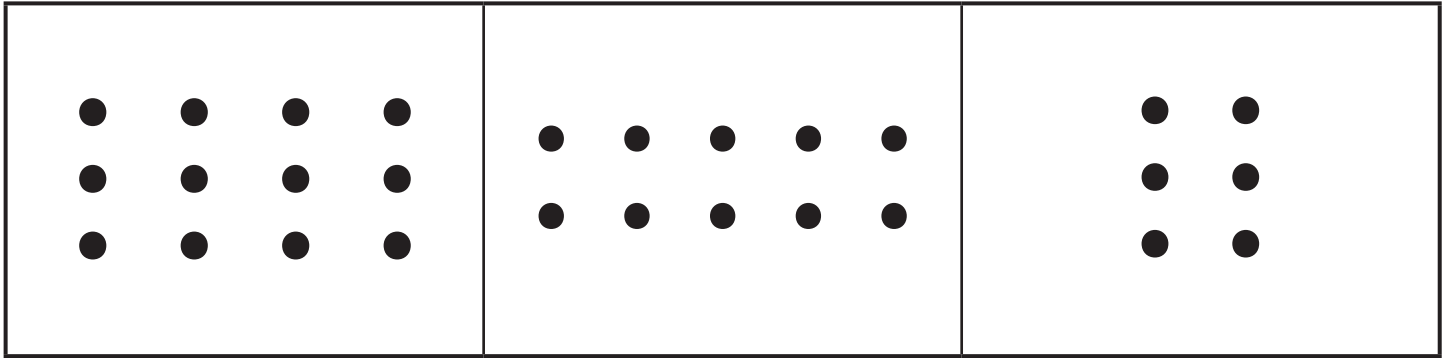
$20 \div 4 = 5$

$50 \div 5 = 10$

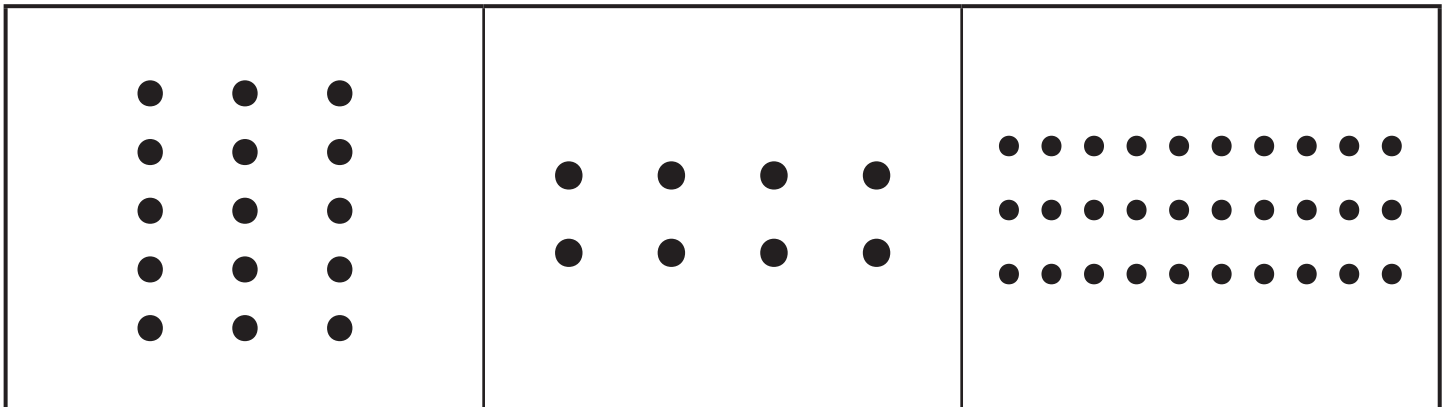
$50 \div 10 = 5$

Arrays

Write four number sentences for each array.

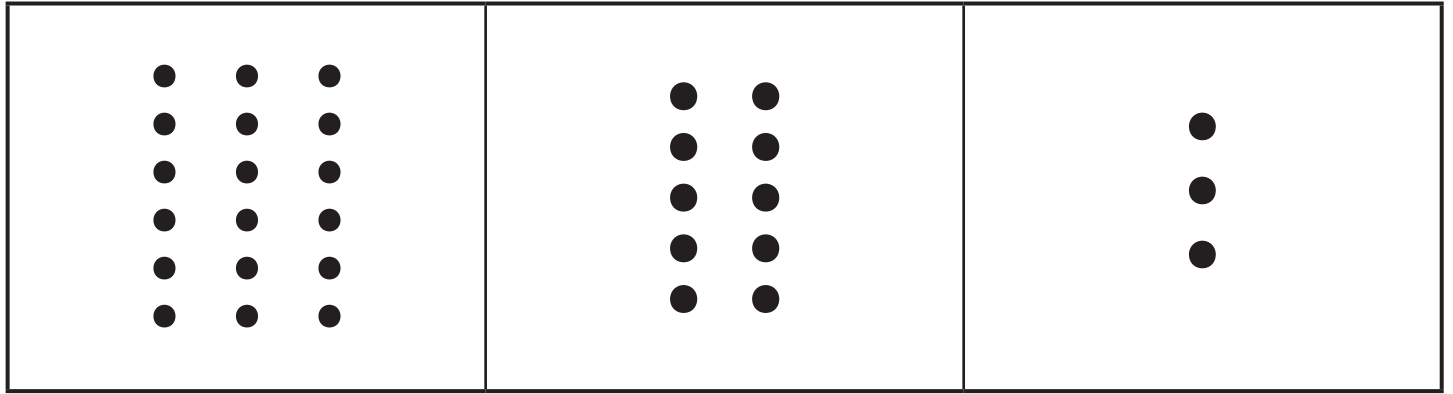


$3 \times 4 = 12$ $4 \times 3 = 12$ $12 \div 3 = 4$ $12 \div 4 = 3$	$2 \times 5 = 10$ $5 \times 2 = 10$ $10 \div 2 = 5$ $10 \div 5 = 2$	$3 \times 2 = 6$ $2 \times 3 = 6$ $6 \div 3 = 2$ $6 \div 2 = 3$
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$3 \times 2 = 6$ $2 \times 3 = 6$ $6 \div 3 = 2$ $6 \div 2 = 3$	$2 \times 4 = 8$ $4 \times 2 = 8$ $8 \div 2 = 4$ $8 \div 4 = 2$	$3 \times 10 = 30$ $10 \times 3 = 30$ $30 \div 3 = 10$ $30 \div 10 = 3$
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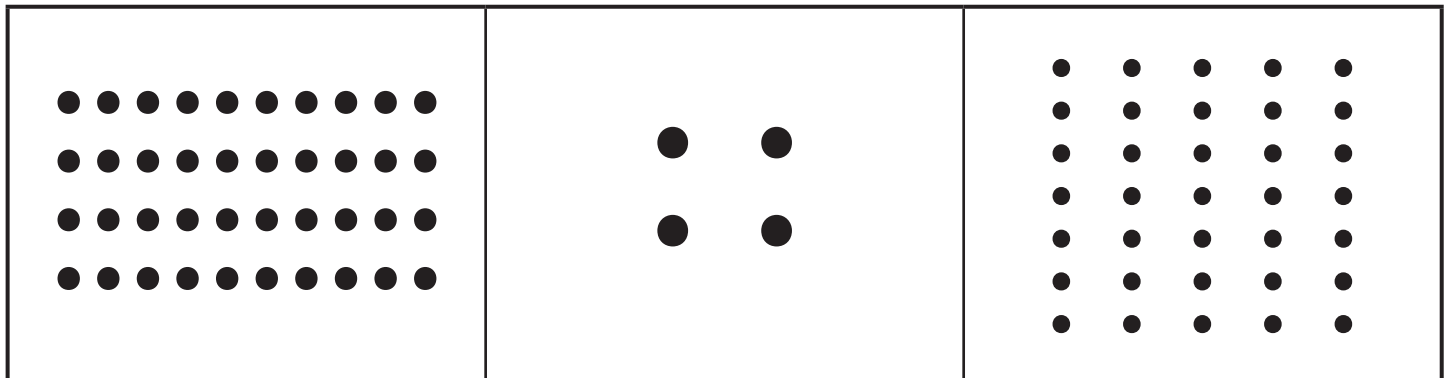
Draw arrays for these number sequences.



$6 \times 3 = 18$

$5 \times 2 = 10$

$3 \times 1 = 3$



$4 \times 10 = 40$

$2 \times 2 = 4$

$7 \times 5 = 35$