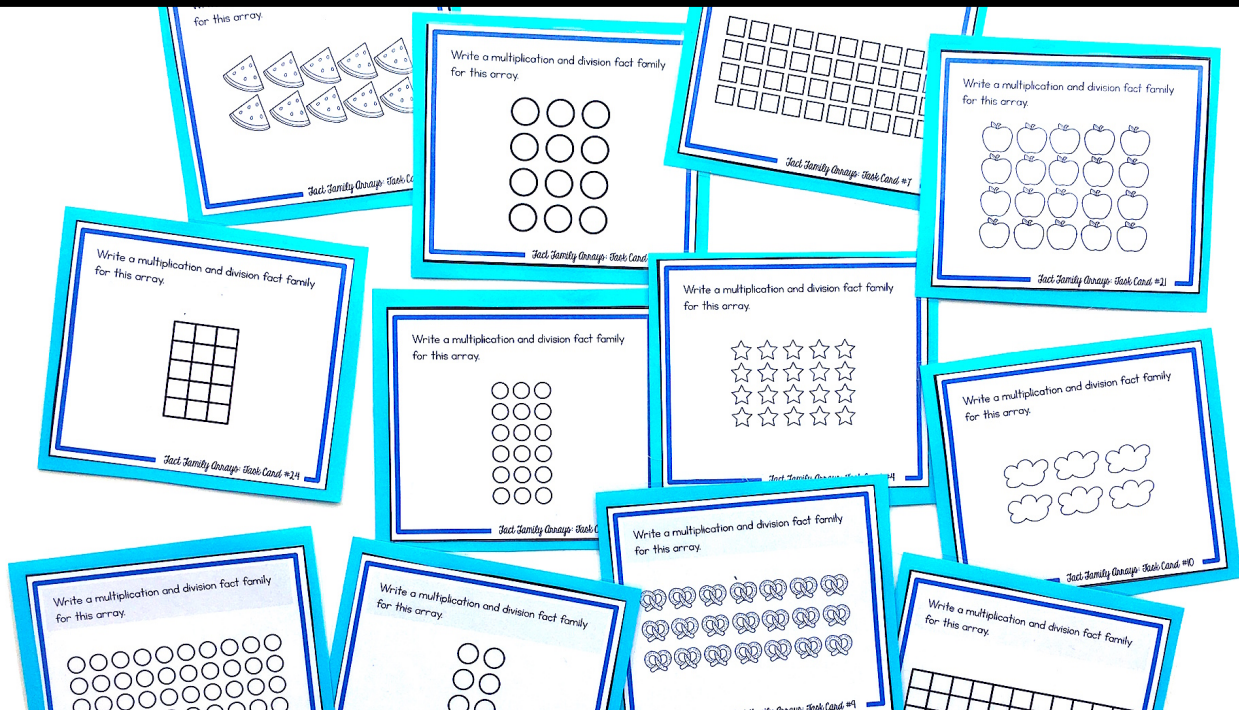


FACT FAMILY ARRAYS

TASK CARDS

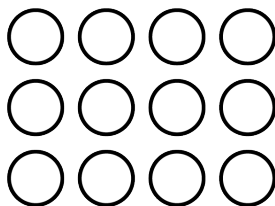
for basic multiplication and division facts



Created by Shelley Gray

About this Resource

Arrays are a useful tool for students beginning multiplication. An array can be used to represent a multiplication equation, using the columns and rows as the two factors in the multiplication equation. For example, the array below represents both $4 \times 3 = 12$ and $3 \times 4 = 12$. Arrays are also useful for showing the relationship between multiplication and division. In this example we see that 4 groups of 3 makes 12, but we can also see that 12, divided into 3 groups, makes 4.



This resource includes 24 task cards, a student recording sheet, as well as a reference poster to hang in your classroom. Answer keys are included at the end of this file.



Are you looking for even more support with teaching multiplication in your classroom? You might be interested in this self-paced, student-centered Multiplication Station that will allow your students to move through a variety of multiplication strategies at their own pace. That station can be found here:

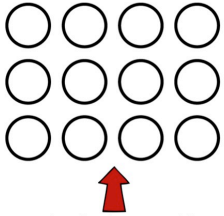
<https://www.teacherspayteachers.com/Product/The-Multiplication-Station-A-Self-Paced-Program-for-Basic-Multiplication-Facts-198216>

This resource includes...

An array reference poster to hang inside the classroom.

ARRAY





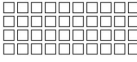



















An array is a group of objects, organized into columns and rows. It can be used to help you solve a multiplication or division equation.



This array has 4 columns and 3 rows. It represents $4 \times 3 = 12$ or $3 \times 4 = 12$. It can also represent $12 \div 4 = 3$ or $12 \div 3 = 4$.

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Twenty-four array task cards; for each one students will write a multiplication/division fact family that is represented by the array.

<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #1</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #2</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #3</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #4</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #5</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #6</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #7</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #8</small></p>
<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #9</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #10</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #11</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #12</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #13</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #14</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #15</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #16</small></p>
<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #17</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #18</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #19</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #20</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #21</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #22</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #23</small></p>	<p>Write a multiplication and division fact family for this array.</p>  <p><small>© Shelley Gray. Not for Redistribution. Task Card #24</small></p>

Recording sheets to help your students stay organized

RECORDING SHEET - page 1	
Card #1	Card #2
Card #3	Card #4
Card #5	Card #6
Card #7	Card #8
Card #9	Card #10
Card #11	Card #12

RECORDING SHEET - page 2	
Card #13	Card #14
Card #15	Card #16
Card #17	Card #18
Card #19	Card #20
Card #21	Card #22
Card #23	Card #24

Answer keys to make self-checking a breeze!

ANSWER KEY	
Card #1 $3 \times 6 = 18$ $6 \div 3 = 8$	Card #2 $18 \div 6 = 3$ $18 \div 3 = 6$
Card #3 $8 \times 9 = 72$ $9 \times 8 = 72$	Card #4 $72 \div 9 = 8$ $72 \div 8 = 9$
Card #5 $5 \times 2 = 10$ $2 \times 5 = 10$	Card #6 $10 \div 2 = 5$ $10 \div 5 = 2$
Card #7 $4 \times 5 = 20$ $5 \times 4 = 20$	Card #8 $20 \div 5 = 4$ $20 \div 4 = 5$
Card #9 $3 \times 8 = 24$ $8 \times 3 = 24$	Card #10 $24 \div 8 = 3$ $24 \div 3 = 8$
Card #11 $7 \times 8 = 56$ $8 \times 7 = 56$	Card #12 $56 \div 8 = 7$ $56 \div 7 = 8$
Card #13 $4 \times 10 = 40$ $10 \times 4 = 40$	Card #14 $40 \div 10 = 4$ $40 \div 4 = 10$
Card #15 $3 \times 7 = 21$ $7 \times 3 = 21$	Card #16 $21 \div 7 = 3$ $21 \div 3 = 7$
Card #17 $5 \times 10 = 50$ $10 \times 5 = 50$	Card #18 $4 \times 3 = 12$ $3 \times 4 = 12$
Card #19 $50 \div 10 = 5$ $50 \div 5 = 10$	Card #20 $12 \div 3 = 4$ $12 \div 4 = 3$
Card #21 $2 \times 3 = 6$ $3 \times 2 = 6$	Card #22 $6 \div 3 = 2$ $6 \div 2 = 3$
Card #23 $4 \times 11 = 44$ $11 \times 4 = 44$	Card #24 $44 \div 11 = 4$ $44 \div 4 = 11$

ANSWER KEY	
Card #13 $8 \times 6 = 48$ $6 \times 8 = 48$	Card #14 $48 \div 6 = 8$ $48 \div 8 = 6$
Card #15 $6 \times 10 = 60$ $10 \times 6 = 60$	Card #16 $60 \div 10 = 6$ $60 \div 6 = 10$
Card #17 $5 \times 7 = 35$ $7 \times 5 = 35$	Card #18 $35 \div 7 = 5$ $35 \div 5 = 7$
Card #19 $2 \times 4 = 8$ $4 \times 2 = 8$	Card #20 $8 \div 4 = 2$ $8 \div 2 = 4$
Card #21 $4 \times 5 = 20$ $5 \times 4 = 20$	Card #22 $20 \div 5 = 4$ $20 \div 4 = 5$
Card #23 $2 \times 5 = 10$ $5 \times 2 = 10$	Card #24 $10 \div 5 = 2$ $10 \div 2 = 5$
Card #25 $6 \times 5 = 30$ $5 \times 6 = 30$	Card #26 $30 \div 5 = 6$ $30 \div 6 = 5$
Card #27 $3 \times 4 = 12$ $4 \times 3 = 12$	Card #28 $12 \div 4 = 3$ $12 \div 3 = 4$
Card #29 $2 \times 9 = 18$ $9 \times 2 = 18$	Card #30 $18 \div 9 = 2$ $18 \div 2 = 9$
Card #31 $7 \times 3 = 21$ $3 \times 7 = 21$	Card #32 $21 \div 3 = 7$ $21 \div 7 = 3$
Card #33 $6 \times 3 = 18$ $3 \times 6 = 18$	Card #34 $18 \div 3 = 6$ $18 \div 6 = 3$
Card #35 $5 \times 3 = 15$ $3 \times 5 = 15$	Card #36 $15 \div 3 = 5$ $15 \div 5 = 3$