










The students use what they know about multiplication, addition, subtraction and division to solve for the missing numbers.

For example, using problem A of the Christmas puzzles:

Christmas Math Puzzle (A)

 ×  = 9	 <input style="width: 40px; height: 30px;" type="text"/>
 +  = 12	 <input style="width: 40px; height: 30px;" type="text"/>
 ÷  +  =	<input style="width: 80px; height: 50px;" type="text"/>


























1. reindeer x reindeer = 9, so the reindeer would have to be 3 because $3 \times 3 = 9$.

2. reindeer + bulb = 12, we already know that the reindeer = 3, so the bulb would have to be 9 because $3 + 9 = 12$.

3. bulb / reindeer + reindeer, the answer is $9 / 3 + 3 = 6$

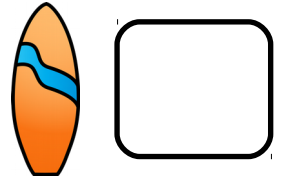
Those are the answers shown on the answer key:

3 (reindeer), 9 (bulb), 6 (answer to the final problem)

<h1 style="margin: 0;">Christmas</h1> <p style="margin: 0;">Math and Logic Cards</p>	Name: _____																
	ANSWER KEY																
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border: 1px solid black;">A</td> <td style="text-align: center; border: 1px solid black;">B</td> <td style="text-align: center; border: 1px solid black;">C</td> <td style="text-align: center; border: 1px solid black;">D</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"> 3</td> <td style="text-align: center; border: 1px solid black;"> 2</td> <td style="text-align: center; border: 1px solid black;"> 4</td> <td style="text-align: center; border: 1px solid black;"> 5</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"> 9</td> <td style="text-align: center; border: 1px solid black;"> 7</td> <td style="text-align: center; border: 1px solid black;"> 12</td> <td style="text-align: center; border: 1px solid black;"> 6</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"><input style="width: 40px; height: 40px; text-align: center;" type="text" value="6"/></td> <td style="text-align: center; border: 1px solid black;"><input style="width: 40px; height: 40px; text-align: center;" type="text" value="21"/></td> <td style="text-align: center; border: 1px solid black;"><input style="width: 40px; height: 40px; text-align: center;" type="text" value="148"/></td> <td style="text-align: center; border: 1px solid black;"><input style="width: 40px; height: 40px; text-align: center;" type="text" value="41"/></td> </tr> </table>	A	B	C	D	 3	 2	 4	 5	 9	 7	 12	 6	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="6"/>	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="21"/>	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="148"/>	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="41"/>	
A	B	C	D														
 3	 2	 4	 5														
 9	 7	 12	 6														
<input style="width: 40px; height: 40px; text-align: center;" type="text" value="6"/>	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="21"/>	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="148"/>	<input style="width: 40px; height: 40px; text-align: center;" type="text" value="41"/>														

Summer Math Puzzle (A)

$$\text{Surfboard} \times \text{Surfboard} = 100$$



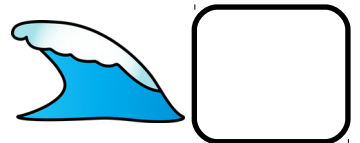
$$90 \div \text{Beachball} = \text{Surfboard}$$



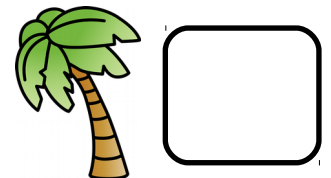
$$\text{Beachball} \times \text{Beachball} + \text{Surfboard} = \text{Box}$$

Summer Math Puzzle (B)

$$\text{Wave} + \text{Wave} + \text{Wave} = 36$$



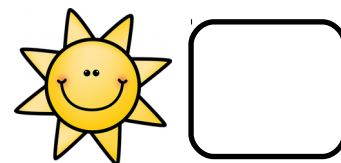
$$\text{Wave} - \text{Palm Tree} = 4$$



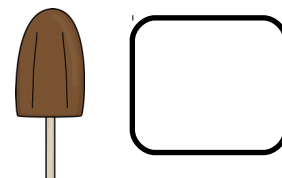
$$\text{Wave} \times \text{Wave} + \text{Palm Tree} = \text{Box}$$

Summer Math Puzzle (C)

$$\text{Sun} + \text{Sun} = 12$$



$$12 - \text{Sun} = \text{Ice Cream}$$



$$\text{Sun} \times \text{Sun} + \text{Ice Cream} = \square$$

Summer Math Puzzle (D)

$$\text{Lemon} + \text{Lemon} + \text{Lemon} = 12$$



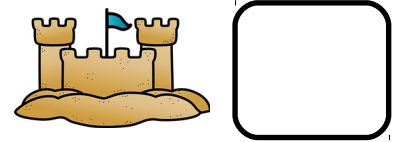
$$\text{Beach Ball} \div \text{Lemon} = 2$$



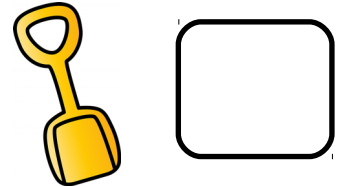
$$\text{Lemon} \times \text{Beach Ball} + \text{Lemon} = \square$$

Summer Math Puzzle (E)

$$\text{Sandcastle} \times \text{Sandcastle} = 144$$



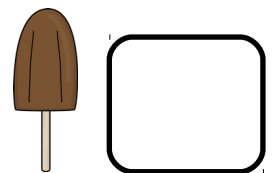
$$\text{Sandcastle} + \text{Shovel} = 17$$



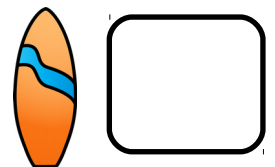
$$\text{Sandcastle} \times \text{Shovel} + \text{Sandcastle} = \boxed{}$$

Summer Math Puzzle (F)

$$\text{Ice Cream} + \text{Ice Cream} + \text{Ice Cream} = 27$$



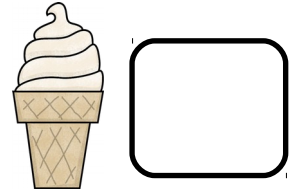
$$54 \div \text{Ice Cream} = \text{Ice Cream}$$



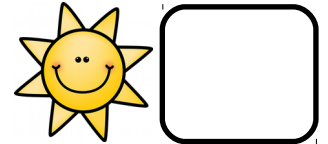
$$\text{Ice Cream} \times \text{Ice Cream} - \text{Ice Cream} = \boxed{}$$

Summer Math Puzzle (G)

$$\text{Ice Cream Cone} \times \text{Ice Cream Cone} = 16$$



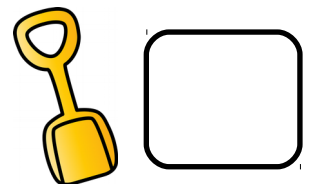
$$\text{Sun} + \text{Ice Cream Cone} = 11$$



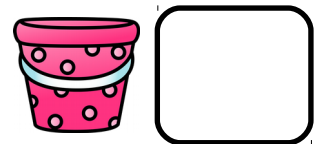
$$\text{Ice Cream Cone} \times \text{Sun} + \text{Ice Cream Cone} = \square$$

Summer Math Puzzle (H)

$$\text{Shovel} + \text{Shovel} = 16$$



$$24 \div \text{Shovel} = \text{Bucket}$$



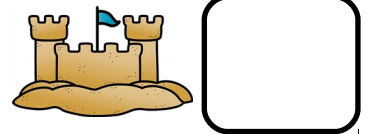
$$\text{Shovel} \times \text{Shovel} + \text{Bucket} = \square$$

Summer Math Puzzle (I)

$$\text{Bucket} \times \text{Bucket} = 64$$



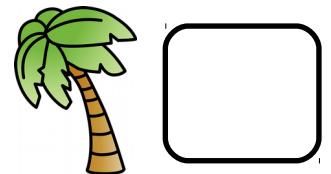
$$\text{Bucket} + \text{Sandcastle} = 14$$



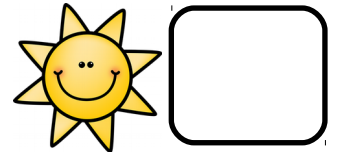
$$\text{Bucket} \times \text{Sandcastle} + \text{Sandcastle} = \square$$

Summer Math Puzzle (J)

$$\text{Palm Tree} + \text{Palm Tree} = 10$$



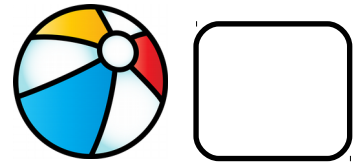
$$\text{Palm Tree} + \text{Sun} = 9$$



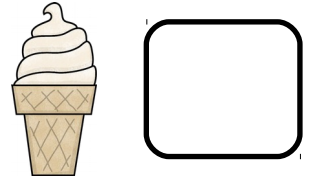
$$\text{Palm Tree} \times \text{Palm Tree} + \text{Sun} = \square$$

Summer Math Puzzle (K)

$$\text{Beach Ball} + \text{Beach Ball} = 14$$



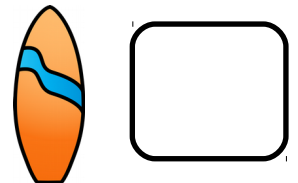
$$\text{Ice Cream Cone} + \text{Beach Ball} = 18$$



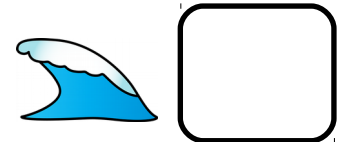
$$\text{Beach Ball} \times \text{Beach Ball} + \text{Ice Cream Cone} = \boxed{}$$

Summer Math Puzzle (L)

$$\text{Surfboard} + \text{Surfboard} = 18$$



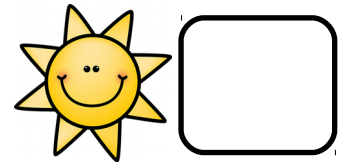
$$13 - \text{Surfboard} = \text{Wave}$$



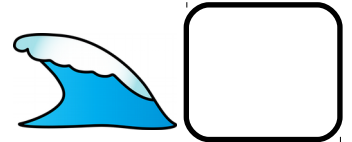
$$\text{Surfboard} \times \text{Wave} - \text{Wave} = \boxed{}$$

Summer Math Puzzle (M)

$$\text{Sun} + \text{Sun} + \text{Sun} = 9$$



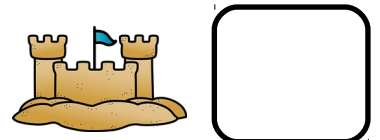
$$\text{Wave} - \text{Sun} = 4$$



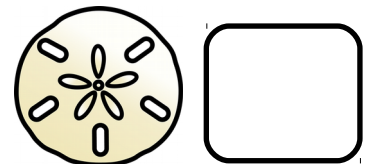
$$\text{Sun} \times \text{Sun} + \text{Wave} = \boxed{}$$

Summer Math Puzzle (N)

$$\text{Sandcastle} + \text{Sandcastle} + \text{Sandcastle} = 33$$



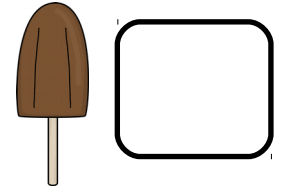
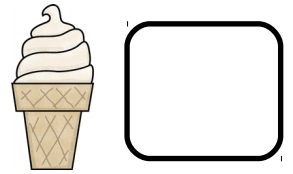
$$99 \div \text{Sandcastle} = \text{Watermelon slice}$$



$$\text{Sandcastle} \times \text{Sandcastle} + \text{Watermelon slice} = \boxed{}$$

Summer Math Puzzle (0)

$$\text{Ice Cream Cone} + \text{Ice Cream Cone} + \text{Ice Cream Cone} = 18$$

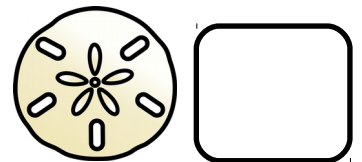


$$72 \div \text{Ice Cream Bar} = \text{Ice Cream Cone}$$

$$\text{Ice Cream Cone} \times \text{Ice Cream Bar} + \text{Ice Cream Cone} = \boxed{}$$

Summer Math Puzzle (P)

$$\text{Lemon Slice} + \text{Lemon Slice} + \text{Lemon Slice} = 21$$



$$16 - \text{Pink Cup} = \text{Lemon Slice}$$








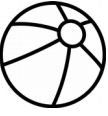
$$\text{Pink Cup} \times \text{Lemon Slice} + \text{Pink Cup} = \boxed{}$$



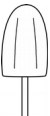









Summer







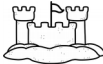





Name: _____

Math and Logic Cards



A   <input data-bbox="587 676 792 865" type="text"/>	B   <input data-bbox="831 676 1036 865" type="text"/>	C   <input data-bbox="1075 676 1279 865" type="text"/>	D   <input data-bbox="1325 676 1529 865" type="text"/>
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E   <input data-bbox="100 1243 305 1432" type="text"/>	F   <input data-bbox="344 1243 548 1432" type="text"/>	G   <input data-bbox="587 1243 792 1432" type="text"/>	H   <input data-bbox="831 1243 1036 1432" type="text"/>	I   <input data-bbox="1075 1243 1279 1432" type="text"/>	J   <input data-bbox="1325 1243 1529 1432" type="text"/>
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K   <input data-bbox="100 1810 305 1999" type="text"/>	L   <input data-bbox="344 1810 548 1999" type="text"/>	M   <input data-bbox="587 1810 792 1999" type="text"/>	N   <input data-bbox="831 1810 1036 1999" type="text"/>	O   <input data-bbox="1075 1810 1279 1999" type="text"/>	P   <input data-bbox="1325 1810 1529 1999" type="text"/>
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Summer













Name: _____










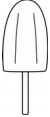


Math and Logic Cards

ANSWER KEY



<p>A</p>  10  9 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">91</div>	<p>B</p>  12  8 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">152</div>	<p>C</p>  6  5 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">41</div>	<p>D</p>  4  8 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">36</div>
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<p>E</p>  12  5 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">72</div>	<p>F</p>  9  6 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">75</div>	<p>G</p>  4  7 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">32</div>	<p>H</p>  8  3 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">67</div>	<p>I</p>  8  6 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">54</div>	<p>J</p>  5  4 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">29</div>
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<p>K</p>  7  11 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">60</div>	<p>L</p>  9  4 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">32</div>	<p>M</p>  3  7 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">16</div>	<p>N</p>  11  9 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">130</div>	<p>O</p>  6  12 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">78</div>	<p>P</p>  7  9 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: 60px; text-align: center;">72</div>
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