










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>		Name: _____		
<h2 style="margin: 0;">Math and Logic Cards</h2>		<b>ANSWER KEY</b>		
	A	B	C	D
	 3	 2	 4	 5
	 9	 7	 12	 6
	<input style="width: 40px; height: 40px; border: 2px solid black;" type="text" value="6"/>	<input style="width: 40px; height: 40px; border: 2px solid black;" type="text" value="21"/>	<input style="width: 40px; height: 40px; border: 2px solid black;" type="text" value="148"/>	<input style="width: 40px; height: 40px; border: 2px solid black;" type="text" value="41"/>

# St. Patrick's Day Math Puzzle (A)

$$\text{Coin} \times \text{Coin} = 36$$



$$\text{Hat} - \text{Coin} = 2$$



$$\text{Hat} + \text{Hat} \times \text{Coin} = \boxed{\phantom{000}}$$

# St. Patrick's Day Math Puzzle (B)

$$\text{Pot} + \text{Pot} + \text{Pot} = 15$$



$$\text{Pot} \times \text{Rainbow} = 20$$



$$\text{Pot} \times \text{Pot} - \text{Rainbow} = \boxed{\phantom{000}}$$

# St. Patrick's Day Math Puzzle (C)

$$\text{U} + \text{U} = 14$$



$$\text{U} + \text{C} = 16$$



$$\text{C} \times \text{C} + \text{U} = \square$$

# St. Patrick's Day Math Puzzle (D)

$$\text{B} + \text{B} + \text{B} = 6$$



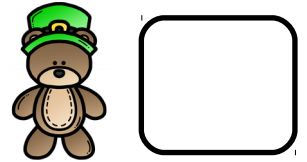
$$\text{L} \div \text{B} = 6$$



$$\text{L} \div \text{B} + \text{B} = \square$$

# St. Patrick's Day Math Puzzle (E)

$$\text{leprechaun hat} \times \text{leprechaun hat} = 121$$



$$\text{leprechaun hat} + \text{teddy bear with hat} = 20$$

$$\text{leprechaun hat} \times \text{teddy bear with hat} - \text{teddy bear with hat} = \boxed{\phantom{000}}$$

# St. Patrick's Day Math Puzzle (F)

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



$$\text{rainbow} \div \text{gold coin} = 4$$

$$\text{rainbow} \times \text{rainbow} + \text{gold coin} = \boxed{\phantom{000}}$$

# St. Patrick's Day Math Puzzle (G)



x



= 81



-



= 2



x



+



=

# St. Patrick's Day Math Puzzle (H)



+



= 20



x



= 30



x



-



=

# St. Patrick's Day Math Puzzle (I)

$$\text{☘} \times \text{☘} = 64$$



$$40 \div \text{☘} = \text{☘}$$

$$\text{☘} \times \text{☘} + \text{☘} = \text{☐}$$

# St. Patrick's Day Math Puzzle (J)

$$\text{☘} + \text{☘} = 16$$



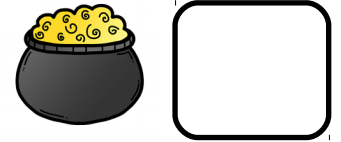
$$\text{☘} \div \text{☘} = 2$$



$$\text{☘} - \text{☘} + \text{☘} = \text{☐}$$

# St. Patrick's Day Math Puzzle (K)

$$\text{Pot of Gold} + \text{Pot of Gold} = 8$$



$$\text{Pot of Gold} \times \text{Leprechaun Hat} = 12$$



$$\text{Pot of Gold} \times \text{Pot of Gold} + \text{Leprechaun Hat} = \square$$

# St. Patrick's Day Math Puzzle (L)

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



$$42 \div \text{Clover} = \text{Rainbow}$$



$$\text{Clover} \times \text{Clover} - \text{Rainbow} = \square$$

# St. Patrick's Day Math Puzzle (M)

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



$$15 \div \text{rainbow} = \text{coin}$$



÷



+



=

# St. Patrick's Day Math Puzzle (N)

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



$$\text{shamrock} + \text{leprechaun} = 13$$



×



+



=



# St. Patrick's Day Math Puzzle (0)

$$\text{Coin} + \text{Coin} = 24$$

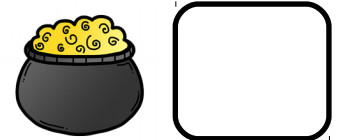


$$\text{Coin} + \text{Shamrock} = 18$$

$$\text{Coin} \times \text{Shamrock} + \text{Shamrock} = \text{[ ]}$$

# St. Patrick's Day Math Puzzle (P)

$$\text{Pot} \times \text{Pot} = 25$$



$$\text{Hat} + \text{Pot} = 14$$





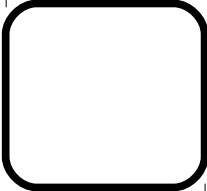


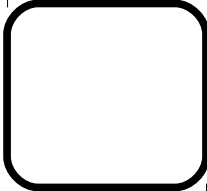


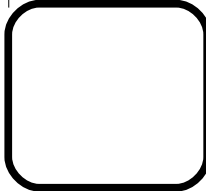


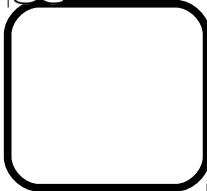
$$\text{Hat} \times \text{Pot} - \text{Pot} = \text{[ ]}$$



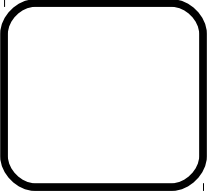


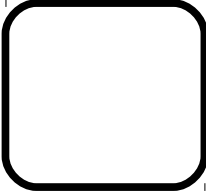


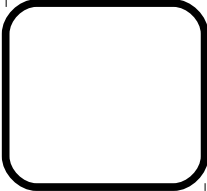


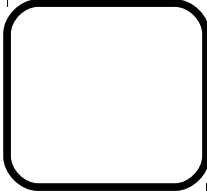


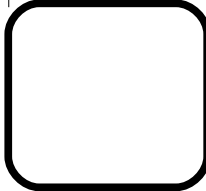


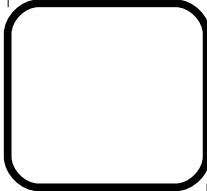
# St. Patrick's Day



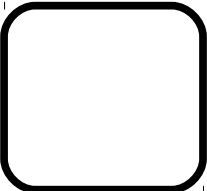


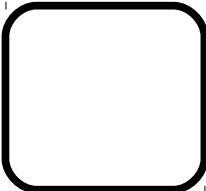


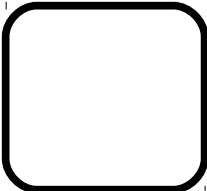


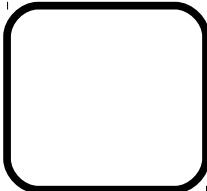


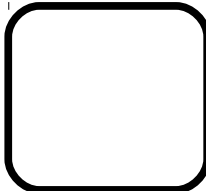


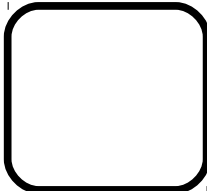
Name: \_\_\_\_\_

## Math and Logic Cards



A   	B   	C   	D   
--	---	--	--

E   	F   	G   	H   	I   	J   
---	---	---	--	---	---

K   	L   	M   	N   	O   	P   
---	--	--	---	--	--









# St. Patrick's Day













Name: \_\_\_\_\_













## Math and Logic Cards

### ANSWER KEY



 6 <sup>A</sup>	 5 <sup>B</sup>	 7 <sup>C</sup>	 2 <sup>D</sup>
 8	 4	 9	 12
<b>56</b>	<b>21</b>	<b>88</b>	<b>8</b>

 11 <sup>E</sup>	 12 <sup>F</sup>	 9 <sup>G</sup>	 10 <sup>H</sup>	 8 <sup>I</sup>	 8 <sup>J</sup>
 9	 3	 7	 3	 5	 4
<b>90</b>	<b>147</b>	<b>72</b>	<b>97</b>	<b>33</b>	<b>12</b>

 4 <sup>K</sup>	 6 <sup>L</sup>	 3 <sup>M</sup>	 4 <sup>N</sup>	 12 <sup>O</sup>	 5 <sup>P</sup>
 3	 7	 5	 9	 6	 9
<b>12</b>	<b>43</b>	<b>6</b>	<b>40</b>	<b>78</b>	<b>40</b>

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