










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)

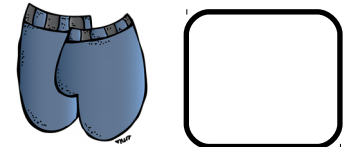
	Name: _____			
	Christmas Math and Logic Cards			ANSWER KEY
A	B	C	D	
 3	 2	 4	 5	
 9	 7	 12	 6	
<input style="width: 40px; height: 40px;" type="text" value="6"/>	<input style="width: 40px; height: 40px;" type="text" value="21"/>	<input style="width: 40px; height: 40px;" type="text" value="148"/>	<input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

Winter Math Puzzle (A)

$$\text{Mug} \times \text{Mug} = 49$$



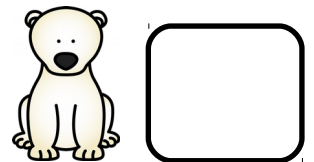
$$\text{Mug} + \text{Pants} = 12$$



$$\text{Pants} \times \text{Mug} + \text{Pants} = \boxed{}$$

Winter Math Puzzle (B)

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



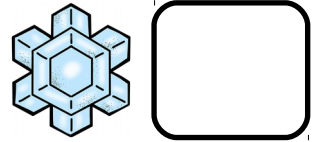
$$\text{Hat} - \text{Bear} = 3$$



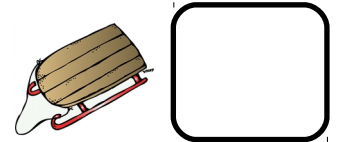
$$\text{Bear} \times \text{Bear} + \text{Hat} = \boxed{}$$

Winter Math Puzzle (C)

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



$$54 \div \text{snowflake} = \text{sled}$$



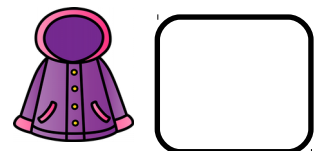
$$\text{sled} \times \text{sled} + \text{snowflake} = \square$$

Winter Math Puzzle (D)

$$\text{hat} + \text{hat} + \text{hat} = 30$$



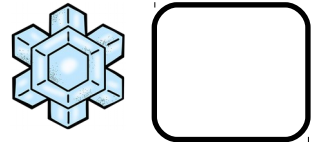
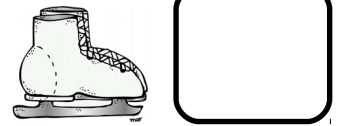
$$\text{hat} - \text{coat} = 6$$



$$\text{hat} \times \text{coat} - \text{coat} = \square$$

Winter Math Puzzle (E)

$$\text{Ice Skating Boot} \times \text{Ice Skating Boot} = 36$$

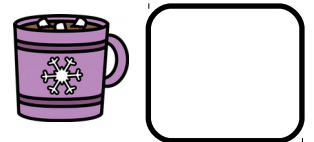
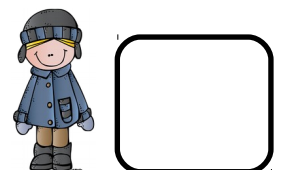


$$42 \div \text{Ice Skating Boot} = \text{Ice Crystal}$$

$$\text{Ice Crystal} \div \text{Ice Crystal} + \text{Ice Skating Boot} = \text{Empty Box}$$

Winter Math Puzzle (F)

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

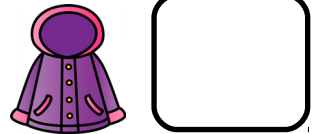


$$\text{Child} \div \text{Hot Chocolate Mug} = 4$$

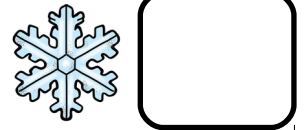
$$\text{Child} \times \text{Child} - \text{Hot Chocolate Mug} = \text{Empty Box}$$

Winter Math Puzzle (G)

$$\text{coat} \times \text{coat} = 16$$



$$\text{snowflake} + \text{coat} = 13$$



$$\text{coat} \times \text{snowflake} - \text{coat} = \square$$

Winter Math Puzzle (H)

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



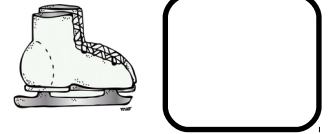
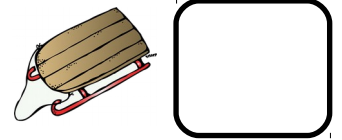
$$\text{penguin} + \text{scarf} = 19$$



$$\text{scarf} \times \text{scarf} + \text{penguin} = \square$$

Winter Math Puzzle (I)

$$\text{Sled} \times \text{Sled} = 4$$

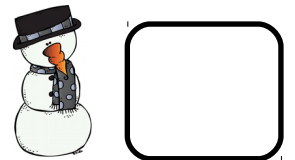
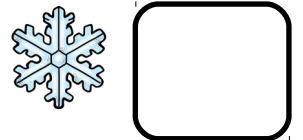


$$\text{Ice skate} + \text{Sled} = 14$$

$$\text{Ice skate} \div \text{Sled} + \text{Sled} = \boxed{}$$

Winter Math Puzzle (J)

$$\text{Snowflake} + \text{Snowflake} = 22$$

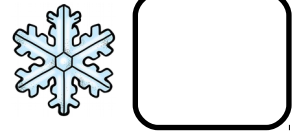
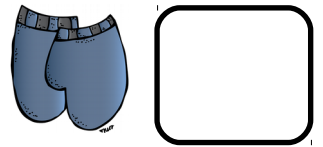


$$\text{Snowflake} + \text{Snowman} = 16$$

$$\text{Snowflake} \times \text{Snowman} - \text{Snowman} = \boxed{}$$

Winter Math Puzzle (K)

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

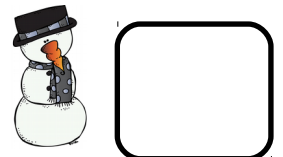


$$\text{snowflake} - 8 = \text{shorts}$$

$$\text{shorts} \times \text{shorts} + \text{snowflake} = \boxed{}$$

Winter Math Puzzle (L)

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

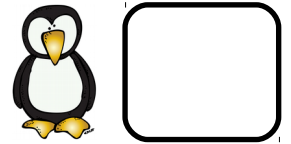


$$56 \div \text{scarf} = \text{snowman}$$

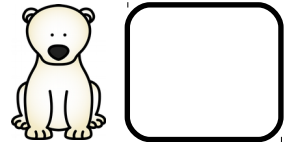
$$\text{snowman} \times \text{snowman} + \text{scarf} = \boxed{}$$

Winter Math Puzzle (M)

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



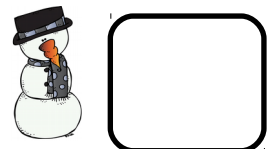
$$\text{Polar Bear} + \text{Penguin} = 9$$



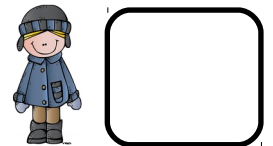
$$\text{Penguin} + \text{Polar Bear} \times \text{Penguin} = \boxed{}$$

Winter Math Puzzle (N)

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



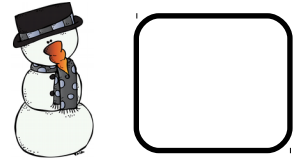
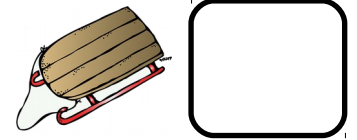
$$\text{Snowman} + \text{Child} = 17$$



$$\text{Child} \times \text{Snowman} + \text{Snowman} = \boxed{}$$

Winter Math Puzzle (0)

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

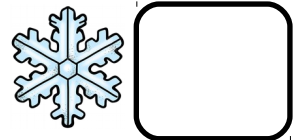


$$28 \div \text{Sled} = \text{Snowman}$$

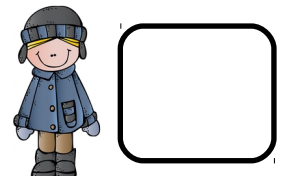
$$\text{Sled} \times \text{Sled} + \text{Snowman} = \text{Box}$$

Winter Math Puzzle (P)

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



$$\text{Child} - \text{Snowflake} = 7$$



$$\text{Snowflake} \times \text{Child} + \text{Snowflake} = \text{Box}$$

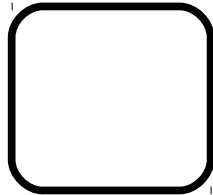
Winter

Name: _____

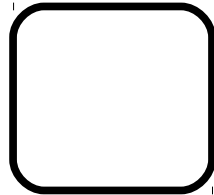
Math and Logic Cards



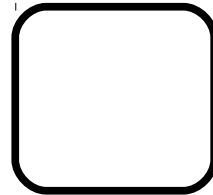
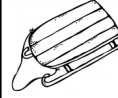
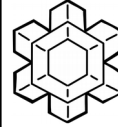
A



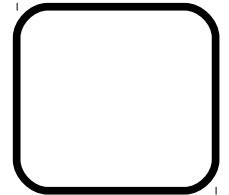
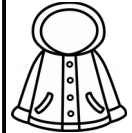
B



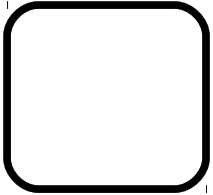
C



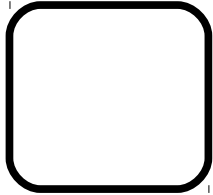
D



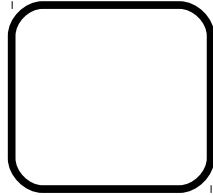
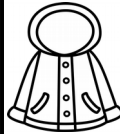
E



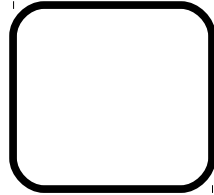
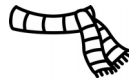
F



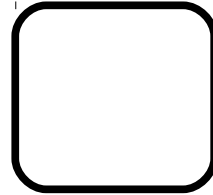
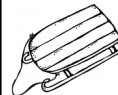
G



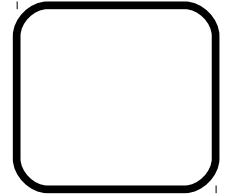
H



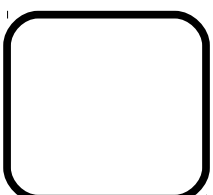
I



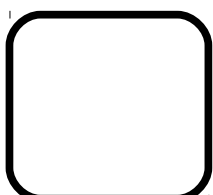
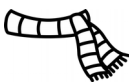
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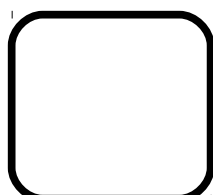
K



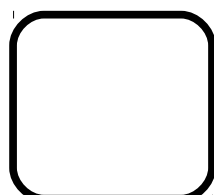
L



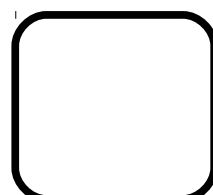
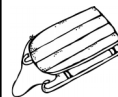
M



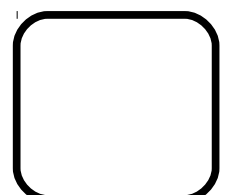
N



O



P
















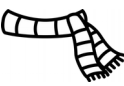

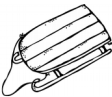






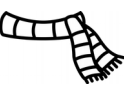




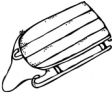





Winter

Name: _____

Math and Logic Cards

ANSWER KEY

	<p>A</p>  7  5 40	<p>B</p>  5  8 33	<p>C</p>  9  6 45	<p>D</p>  10  4 36	
<p>E</p>  6  7 7	<p>F</p>  12  3 14	<p>G</p>  4  9 32	<p>H</p>  8  11 75	<p>I</p>  2  12 8	<p>J</p>  11  5 50
<p>K</p>  3  17 20	<p>L</p>  7  8 57	<p>M</p>  6  3 24	<p>N</p>  8  9 80	<p>O</p>  4  7 23	<p>P</p>  5  12 65

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