










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 $9 / 3 + 3 = 6$

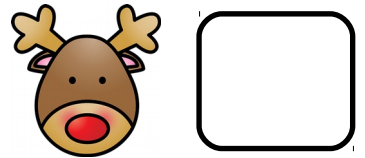
Those are the answers shown on the answer key:

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>		ANSWER KEY		
	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"/>

Christmas Math Puzzle (A)

$$\text{Reindeer} \times \text{Reindeer} = 9$$

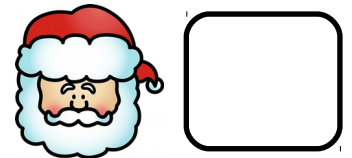
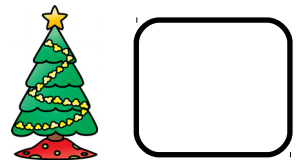


$$\text{Reindeer} + \text{Lightbulb} = 12$$

$$\text{Lightbulb} \div \text{Reindeer} + \text{Reindeer} = \boxed{}$$

Christmas Math Puzzle (B)

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



$$\text{Santa} - \text{Tree} = 5$$

$$\text{Santa} + \text{Santa} \times \text{Tree} = \boxed{}$$

Christmas Math Puzzle (C)

$$\text{bell} + \text{bell} = 8$$

$$\text{bell} = \square$$

$$\text{bow} \div \text{bell} = 3$$

$$\text{bow} = \square$$

$$\text{bow} \times \text{bow} + \text{bell} = \square$$

Christmas Math Puzzle (D)

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

$$\text{gift} = \square$$

$$\text{gift} \times \text{candy} = 30$$

$$\text{candy} = \square$$

$$\text{candy} \times \text{candy} + \text{gift} = \square$$

Christmas Math Puzzle (E)

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



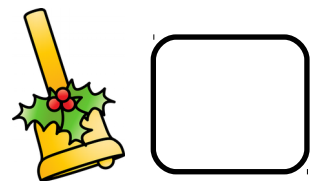
$$\text{Wreath} + \text{Elf} = 11$$



$$\text{Elf} \times \text{Elf} + \text{Wreath} = \boxed{}$$

Christmas Math Puzzle (F)

$$\text{Bell} + \text{Bell} + \text{Bell} = 27$$



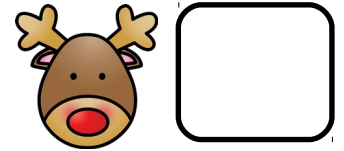
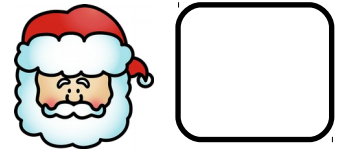
$$\text{Bell} \times \text{Holly} = 45$$



$$\text{Bell} - \text{Bell} + \text{Holly} = \boxed{}$$

Christmas Math Puzzle (G)

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

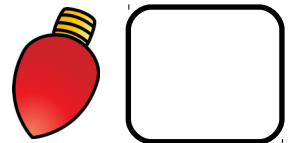


$$80 \div \text{Reindeer} = \text{Santa}$$

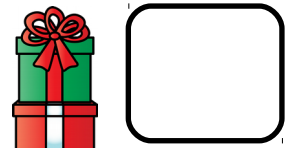
$$\text{Reindeer} \times \text{Reindeer} + \text{Santa} = \boxed{}$$

Christmas Math Puzzle (H)

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



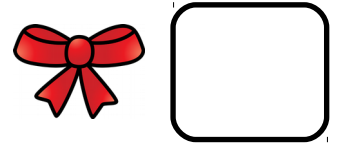
$$\text{Light} + \text{Gift} = 19$$



$$\text{Gift} + \text{Gift} \times \text{Light} = \boxed{}$$

Christmas Math Puzzle (I)

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



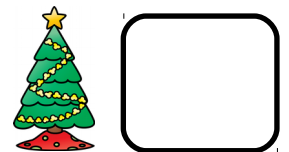
$$\text{Candy Cane} - \text{Bow} = 2$$



$$\text{Candy Cane} \times \text{Bow} - \text{Bow} = \boxed{}$$

Christmas Math Puzzle (J)

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



$$\text{Tree} \div 3 = \text{Elf}$$



$$\text{Elf} \times \text{Elf} + \text{Tree} = \boxed{}$$

Christmas Math Puzzle (K)

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

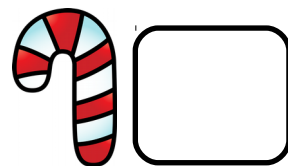


$$\text{Bow} - \text{Holly} = 5$$

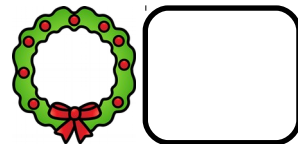
$$\text{Holly} \times \text{Bow} - \text{Holly} = \boxed{}$$

Christmas Math Puzzle (L)

$$\text{Candy Cane} + \text{Candy Cane} = 20$$



$$\text{Candy Cane} - \text{Wreath} = 7$$



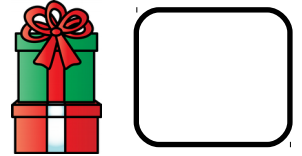
$$\text{Candy Cane} \times \text{Wreath} - \text{Candy Cane} = \boxed{}$$

Christmas Math Puzzle (M)

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



$$\text{Tree} + \text{Gift} = 13$$



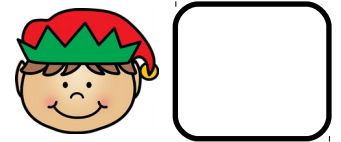
$$\text{Tree} - \text{Gift} + \text{Tree} = \square$$

Christmas Math Puzzle (N)

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



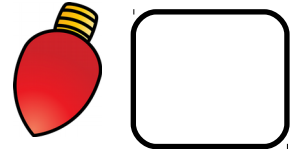
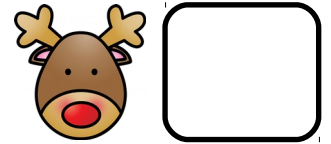
$$\text{Elf} + \text{Santa} = 15$$



$$\text{Santa} \times \text{Elf} + \text{Santa} = \square$$

Christmas Math Puzzle (0)

$$\text{Reindeer} + \text{Reindeer} + \text{Reindeer} = 21$$

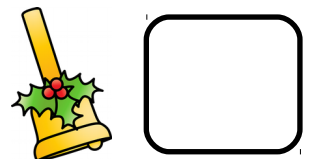
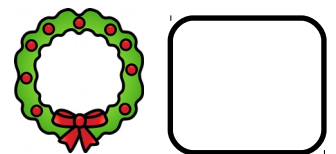


$$\text{Light} \times \text{Reindeer} = 56$$

$$\text{Light} \times \text{Light} + \text{Reindeer} = \boxed{}$$

Christmas Math Puzzle (P)

$$\text{Wreath} \times \text{Wreath} = 81$$



$$63 \div \text{Wreath} = \text{Bell}$$

$$\text{Wreath} + \text{Bell} \times \text{Bell} = \boxed{}$$

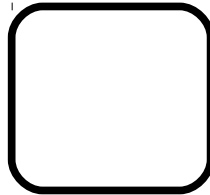
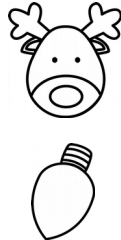
Christmas

Name: _____

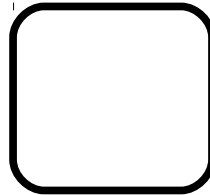
Math and Logic Cards



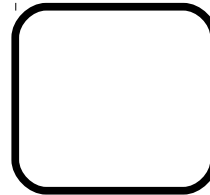
A



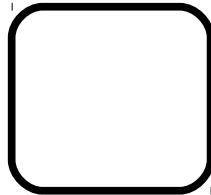
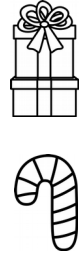
B



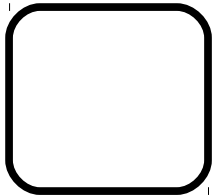
C



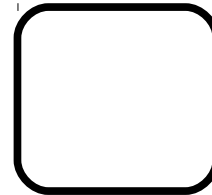
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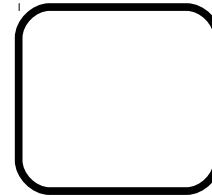
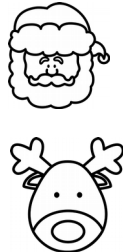
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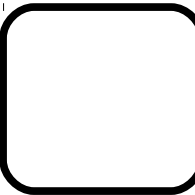
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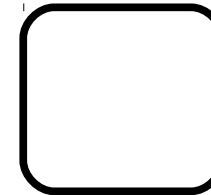
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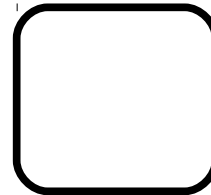
H



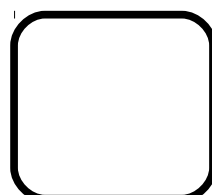
I



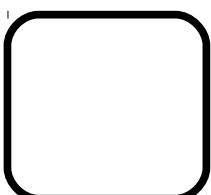
J



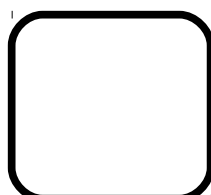
K



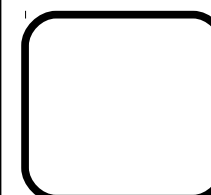
L



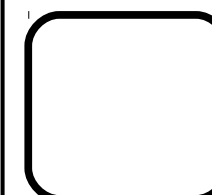
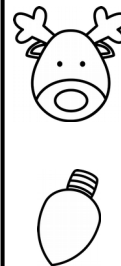
M



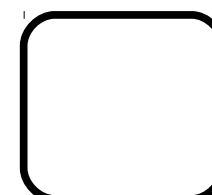
N



O



P



Christmas


Name: _____


Math and Logic Cards

ANSWER KEY




A


 3

 9

6

B


 2

 7

21


C


 4

 12

148


D


 5

 6

41


E


 7

 4

23


F


 9

 5

5


G


 8

 10

108

H

 11

 8

96


I


 5

 7

30


J


 12

 4

28


K

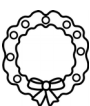
 6

 11

55

L

 10

 3

20


M


 8

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11


N


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60


O


 7

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71

P

 9

 7

58

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