

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"/> |

Autumn Math Puzzle (A)



x



= 49



+



= 15



x



+

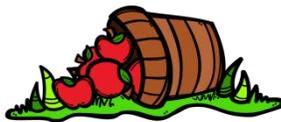


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Autumn Math Puzzle (B)



x



= 16



-



= 6



x



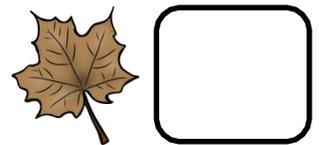
+



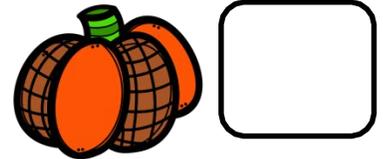
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Autumn Math Puzzle (C)

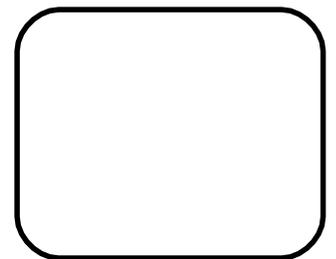
$$\text{leaf} + \text{leaf} + \text{leaf} = 24$$



$$\text{pumpkin} \times \text{leaf} = 88$$

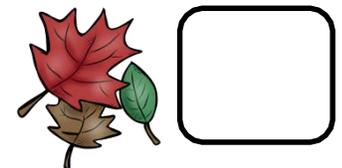


$$\text{leaf} \times \text{pumpkin} + \text{pumpkin} = \square$$

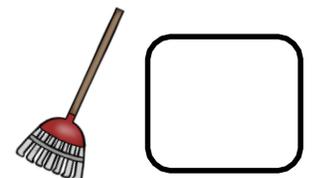


Autumn Math Puzzle (D)

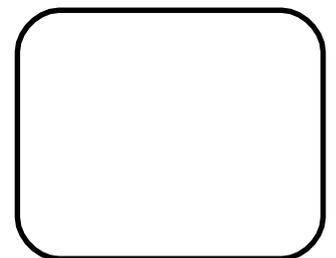
$$\text{leaf} \times \text{leaf} = 144$$



$$\text{leaf} \times \text{broom} = 48$$



$$\text{broom} \times \text{leaf} + \text{broom} = \square$$



Autumn Math Puzzle (E)

$$\text{Pile of leaves} \times \text{Pile of leaves} = 25 \quad \text{Scarecrow} \quad \square$$

$$\text{Pile of leaves} + \text{Scarecrow} = 17 \quad \text{Pile of leaves} \quad \square$$

$$\text{Pile of leaves} \times \text{Scarecrow} + \text{Scarecrow} = \square$$

Autumn Math Puzzle (F)

$$\text{Girl with broom} + \text{Girl with broom} + \text{Girl with broom} = 21 \quad \text{Girl with broom} \quad \square$$

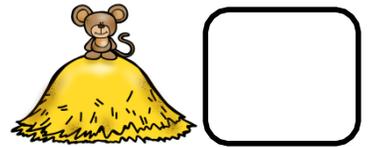
$$\text{Bale of hay} \quad \square$$

$$24 \div \text{Bale of hay} = 2$$

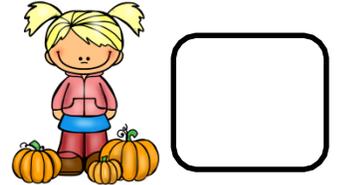
$$\text{Girl with broom} \times \text{Bale of hay} + \text{Bale of hay} = \square$$

Autumn Math Puzzle (G)

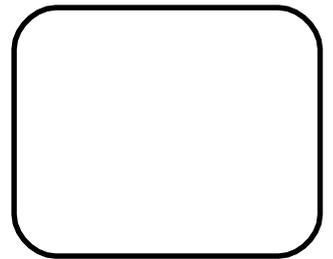
$$\text{Haystack with mouse} \times \text{Haystack with mouse} = 121$$



$$\text{Girl with pumpkins} \times \text{Girl with pumpkins} = 100$$

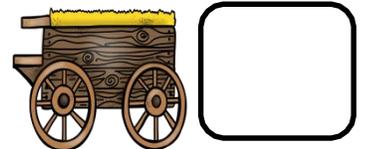
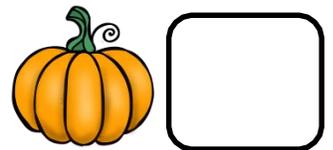


$$\text{Haystack with mouse} \times \text{Girl with pumpkins} + \text{Girl with pumpkins} =$$



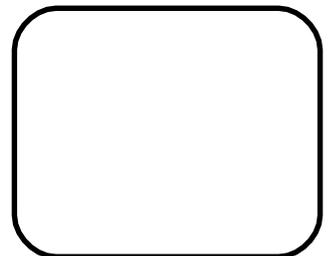
Autumn Math Puzzle (H)

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



$$\text{Wagon} + \text{Pumpkin} = 14$$

$$\text{Pumpkin} \times \text{Pumpkin} + \text{Wagon} =$$



Autumn Math Puzzle (I)



x



= 36



+



= 14



x



+



=

Autumn Math Puzzle (J)



+



= 18



÷

3

= 4



x



+



=

Autumn Math Puzzle (K)

$$\text{Girl on hay bale} \times \text{Girl on hay bale} = 144$$

Girl on hay bale

$$17 - \text{Girl on hay bale} = \text{Hay bale with pumpkins}$$

Hay bale with pumpkins

$$\text{Hay bale with pumpkins} \div \text{Hay bale with pumpkins} + \text{Girl on hay bale} = \text{ } \square$$

Autumn Math Puzzle (L)

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

Tractor

$$\text{Pumpkin} - \text{Tractor} = 3$$

Pumpkin

$$\text{Tractor} \times \text{Tractor} + \text{Pumpkin} = \text{ } \square$$

Autumn Math Puzzle (M)

$$\text{Child} \times \text{Child} = 64 \quad \text{Child} \square$$

$$\text{Child} - \text{Leaves} = 6 \quad \text{Leaves} \square$$

$$\text{Child} \times \text{Child} + \text{Leaves} = \square$$

Autumn Math Puzzle (N)

$$\text{Child} + \text{Child} = 18 \quad \text{Child} \square$$

$$\text{Child} - \text{Hay} = 6 \quad \text{Hay} \square$$

$$\text{Hay} \times \text{Child} + \text{Hay} = \square$$

Autumn Math Puzzle (0)

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



$$11 - 6 = \text{Wagon}$$

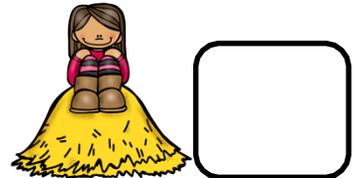
$$\text{Wagon} \times \text{Child} + \text{Child} = \text{Box}$$

Autumn Math Puzzle (P)

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



$$\text{Girl} - 2 = 9$$



$$\text{Girl} \times \text{Girl} + \text{Tree} = \text{Box}$$

Autumn

Name: _____

Math and Logic Cards



| | | | |
|--|--|--|--|
| A  <input type="text"/> | B  <input type="text"/> | C  <input type="text"/> | D  <input type="text"/> |
|--|--|--|--|

| | | | | | |
|---|---|---|---|---|---|
| E  <input type="text"/> | F  <input type="text"/> | G  <input type="text"/> | H  <input type="text"/> | I  <input type="text"/> | J  <input type="text"/> |
|---|---|---|---|---|---|

| | | | | | |
|--|--|--|--|--|--|
| K  <input type="text"/> | L  <input type="text"/> | M  <input type="text"/> | N  <input type="text"/> | O  <input type="text"/> | P  <input type="text"/> |
|--|--|--|--|--|--|

Autumn

Name: _____

Math and Logic Cards

ANSWER KEY



| A | B | C | D |
|---|--|--|--|
|  7 |  10 |  8 |  12 |
|  8 |  4 |  11 |  4 |
| 71 | 44 | 99 | 52 |

| E | F | G | H | I | J |
|---|--|--|---|---|--|
|  12 |  7 |  11 |  5 |  8 |  9 |
|  5 |  12 |  10 |  9 |  6 |  12 |
| 72 | 96 | 120 | 34 | 54 | 153 |

| K | L | M | N | O | P |
|---|--|---|---|---|--|
|  12 |  7 |  8 |  9 |  4 |  6 |
|  5 |  10 |  2 |  3 |  5 |  11 |
| 13 | 59 | 66 | 30 | 24 | 127 |

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