

Here are your free Christmas Logic Puzzles!

In this free sample, I've included **one puzzle from each level of package** that is available. This will help you decide which levels will work best for your unique students!

1

Try the puzzles with your students. How do they respond? Which ones give them a "just right" challenge?

2

Identify any students that may need puzzles at different levels, either to provide extra challenge or extra support.

3

Once you know the levels you require, come back here to grab the full packages or, if you're serious about differentiation, the entire multi-grade bundle.

SEE FULL PACKAGES HERE.

Sample Puzzle #1

Find the value for each symbol.

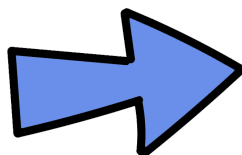
$$\text{Bow} + \text{Bow} = 10$$

$$\text{Lightbulb} - \text{Bow} = 4$$

$$\text{Trumpet} - \text{Bow} = 3$$

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If your students show a “just right” amount of struggle with this puzzle, THIS PACKAGE will be a good fit.



CHRISTMAS LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\text{Candy cane} + \text{Bow} = 5$$
$$\text{Bow} + \text{Bow} = 6$$

Find the value for each symbol.

$$\text{Gingerbread man} - \text{Candy cane} = \text{Train}$$
$$\text{Candy cane} - 8 = \text{Train}$$
$$\text{Train} + \text{Train} = 2$$

6

GRADE 2

Addition & Subtraction Within 10

Sample Puzzle #2

Find the value for each symbol.

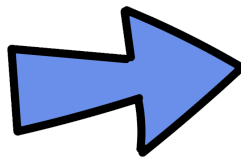
$$\text{Candy cane} + \text{Stocking} = 15$$

$$\text{Red duck} + \text{Candy cane} = 20$$

$$\text{Candy cane} + \text{Candy cane} = 10$$

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CHRISTMAS
LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\text{Gingerbread man} + \text{Gingerbread man} = 8$$
$$\text{Gingerbread man} + \text{Candy cane} = 20$$

Find the value for each symbol.

$$\text{Reindeer} + \text{Sweater} = 17$$
$$\text{Reindeer} + \text{Gift} = 18$$
$$\text{Sweater} + \text{Sweater} = 10$$

GRADE
2

15

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Addition Within 20

Sample Puzzle #3

Find the value for each symbol.

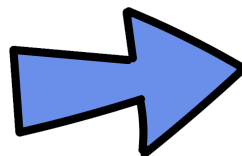
$$\text{Lightbulb} + \text{Lightbulb} = 18$$

$$20 - \text{Green Ornament} = 12$$

$$\text{Candy} + \text{Candy} = \text{Green Ornament}$$



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CHRISTMAS LOGIC PROBLEMS
SHELLEY GRAY



Find the value for each symbol.



 -  = 1

 +  = 2

Find the value for each symbol.

 +  = 20

 -  = 15

 +  = 2

GRADES 3-4

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Addition & Subtraction Within 20

Sample Puzzle #4

Find the value for each symbol.

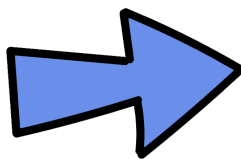
$$\text{Fireplace} + \text{Red Ornament} + \text{Green Tree} = 90$$

$$\text{Red Ornament} - \text{Green Tree} = 60$$

$$\text{Green Tree} + \text{Green Tree} = 14$$

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CHRISTMAS
LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\text{Red Ornament} + \text{Santa} + \text{Santa} = 30$$
$$\text{Santa} + \text{Green Tree} = 20$$

Find the value for each symbol.

$$\text{Green Tree} + \text{Cup} - \text{Ornament} = 10$$
$$\text{Cup} + \text{Cup} = 40$$
$$\text{Ornament} + 6 = \text{Cup}$$

3
6

GRADES
3-5

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Addition & Subtraction Within 100

Sample Puzzle #5

Find the value for each symbol.

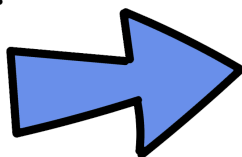
$$\begin{array}{c} \text{Santa} \\ \text{STOP} \\ \text{HERE!} \end{array} + \text{Red Ornament} = 300$$

$$\text{Red Ornament} + \text{Red Ornament} + \text{Red Ornament} = 363$$

$$\text{Green and Red Striped Sock} + \begin{array}{c} \text{Santa} \\ \text{STOP} \\ \text{HERE!} \end{array} = 480$$

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If your students show a “just right” amount of struggle with this puzzle, THIS PACKAGE will be a good fit.



CHRISTMAS LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\begin{array}{c} \text{Green Ornament} + \text{Green Ornament} + \text{Green Ornament} = 600 \\ \text{Elf} + \text{Green Ornament} = 800 \end{array}$$

Find the value for each symbol.

$$\begin{array}{c} \text{Red Ornament} - \text{Santa} - \text{Tree} = 100 \\ \text{Santa} + \text{Santa} = 480 \\ \text{Tree} + \text{Santa} = 540 \end{array}$$

GRADES 4-6

6

Addition & Subtraction Within 1,000

Sample Puzzle #6

Find the value for each symbol.

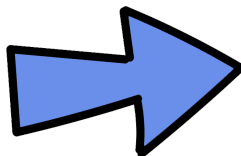
$$\begin{array}{c} \text{Candy Cane} \\ \times \\ \text{Candy Cane} \\ \hline = 25 \end{array}$$

$$\begin{array}{c} \text{Christmas Tree} \\ + \\ \text{Candy Cane} \\ \hline = 20 \end{array}$$

$$\begin{array}{c} \text{Light Bulb} \\ + \\ \text{Light Bulb} \\ + \\ \text{Christmas Tree} \\ \hline = 75 \end{array}$$

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CHRISTMAS LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\begin{array}{c} \text{Candy Cane} \\ \times \\ \text{Candy Cane} \\ \hline = 25 \end{array}$$
$$\begin{array}{c} \text{Christmas Tree} \\ + \\ \text{Candy Cane} \\ \hline = 20 \end{array}$$

Find the value for each symbol.

$$\begin{array}{c} \text{Light Bulb} \\ + \\ \text{Light Bulb} \\ + \\ \text{Christmas Tree} \\ \hline = 75 \end{array}$$

2

GRADES 4-6

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Addition, Subtraction, and Multiplication Within 100

Sample Puzzle #7

Find the value for each symbol.

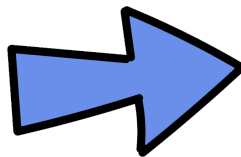
$$\text{Sled} \times \text{Ornament} = 54$$

$$\text{Ornament} \times \text{Ornament} = \text{Stocking}$$

$$99 \div \text{Stocking} = 11$$

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If your students show a “just right” amount of struggle with this puzzle, THIS PACKAGE will be a good fit.



CHRISTMAS LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\text{Sled} \times \text{Sled} = 4$$
$$\text{Stocking} \times \text{Sled} = 100$$
$$99 \times \text{Sled} = 99$$

Find the value for each symbol.

$$\text{Santa} \times 3 = \text{Ornament}$$
$$\text{Stocking} \div \text{Santa} = 19$$
$$\text{Ornament} \times \text{Ornament} = 36$$

GRADES 4-6

3

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Multiplication & Division

Sample Puzzle #8

Find the value for each symbol.

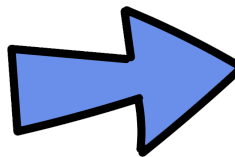
$$\text{Bow} + \text{Bow} = 8.4$$

$$\text{Ornament} + \text{Bow} = 7$$

$$\text{Tree} + \text{Ornament} = 6.5$$

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CHRISTMAS
LOGIC PROBLEMS
SHELLEY GRAY

Find the value for each symbol.

$$\text{Bow} + \text{Bow} = 8.4$$
$$\text{Ornament} + \text{Bow} = 7$$

Find the value for each symbol.

$$\text{Tree} + \text{Ornament} = 4.4$$
$$\text{Ornament} - \text{Tree} = 4$$
$$\text{Window} - \text{Ornament} = 2.2$$

6

GRADES
5-6

Decimal Numbers to Tenths

Make differentiation
easy! See the full
bundle here.



CHRISTMAS LOGIC PROBLEMS

Bundle

160
PUZZLES

Find the value for each symbol.

$$\begin{array}{l} \text{Ornament} \div 2 = \text{Stocking} \\ \text{Stocking} \times \text{Stocking} = \text{Sweater} \\ \text{Sweater} \div \text{Ornament} = \end{array}$$

7

Find the value for each symbol.

$$\begin{array}{l} \text{Ornament} + \text{Santa} + \text{Santa} = 30 \\ \text{Santa} + \text{Tree} = 20 \\ \text{Tree} + \text{Tree} = 16 \end{array}$$

SHELLEY GRAY