

Christmas Equations

Task Cards

7

$14 + \text{owl} = \text{girl}$
 $\text{owl} + \text{owl} = \text{girl} + \text{star}$
 $\text{star} = \text{Santa} + \text{Santa} + \text{Santa}$
 $\text{Santa} = \text{owl} - 2$
 $\text{Santa} - \text{owl} + \text{star} = ?$

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3

$\text{candy} - \text{cup} = \text{candy}$
 $\text{cup} - \text{candy} = \text{candy}$
 $\text{cup} + \text{cup} + \text{cup} = \text{candy}$
 $\text{cup} + \text{cup} = 30$
 $\text{cup} + \text{candy} - \text{cup} = ?$

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9

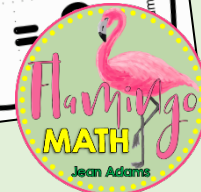
$\text{candy} + \text{candy} = \text{cup}$
 $18 = \text{cup} + \text{girl}$
 $\text{candy} + \text{candy} = \text{cup} + 3$
 $\text{girl} + \text{girl} = \text{cup}$
 $\text{girl} - \text{cup} - \text{candy} = ?$

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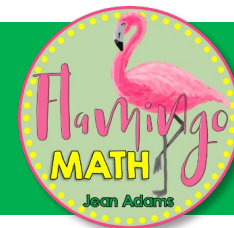
6

$\text{candy} - \text{girl} = \text{candy}$
 $2 \text{ candy} + \text{girl} = -20$
 $\text{girl} - \text{candy} = \text{candy} + \text{candy}$
 $\text{candy} - 8 = \text{girl}$
 $\text{candy} + \text{girl} + \text{candy} - \text{candy} = ?$

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Christmas Equations & Logic



Picture equations are a fun way to promote problem-solving skills necessary for Algebra, Geometry and beyond.

Offering equation solving in this format will challenge students to think about algebraic processes.

Your students will also practice mathematical vocabulary when allowed to work cooperatively.

There are three sets of task cards. The first set will challenge middle school and Algebra students. The second and third sets are challenges for high school students.

Use them for early finishers, as a warm-up or skill-building challenges.

You might want to print, copy and laminate the cards to use again and again.

There is an answer sheet for recording student work and an answer key for the sets provided.

Christmas Logic Puzzles

1

 +  = 
 -  = 
 +  +  - 15 = 17 = 3

3

 -  = 
 -  = 
 +  +  = 
 +  = 30

2

 -  = 17
 +  = 12
 +  =  + 
 +  = 16
 + 1 = 
 +  = 
 13 =  + 

4

 +  = 16
 + 1 = 
 +  = 
 13 =  + 

5

 +  = 7
 +  +  = 19
 +  = 
 +  +  = 2
 +  -  = ?

6

 -  = 
 2  -  = -20
 -  =  + 
 - 8 = 
 +  +  -  = ?

3 Difficulty Levels

$$14 + \text{candy} = \text{girl}$$

7

$$\text{candy} + \text{candy} = \text{girl} + \text{star}$$

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

$$\text{Santa} = \text{candy} - 2$$

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$$\text{candy} - \text{candy} = -14$$

8

$$\text{candy} + \text{candy} + \text{candy} = \text{candy} - \text{candy}$$

$$\text{candy} = \text{candy} + \text{candy}$$

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$$\text{candy} + \text{candy} = \text{candy}$$

9

$$18 - \text{candy} + \text{candy} = \text{candy} + 3$$

$$\text{candy} + \text{candy} = \text{candy} + 3$$

$$\text{candy} + \text{candy} - \text{candy} = \text{candy}$$

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$$\text{candy} - \text{candy} = -14$$

10

$$\text{candy} + \text{candy} = \text{candy}$$

$$2 \text{ candy} = \text{candy} + 3$$

$$2 \text{ candy} - 3 \text{ candy} = 2$$

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$$\text{candy} - \text{candy} = 10$$

11

$$\text{candy} - \text{candy} = 5.75$$

$$4.5 = \text{candy} + \text{candy}$$

$$\text{candy} - 2 = \text{candy}$$

$$\text{candy} - \text{candy} + \text{candy} = ?$$

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$$\text{candy} + \text{candy} + \text{candy} = \text{candy}$$

12

$$\text{candy} = \text{candy} - \text{candy}$$

$$\text{candy} + \text{candy} + \text{candy} = \text{candy}$$

$$\text{candy} = \text{candy} + 2.25$$

$$\text{candy} + \text{candy} + \text{candy} = ?$$

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Student Recording Sheet

Christmas Equations

Name _____

Directions: Solve each set of Christmas Equation Task Cards and record your findings on this page.

1



=



=



=



=

? =

2



=



=



=

3



=



=



=

4



=



=



=

Christmas Equations

Name _____

Directions: Solve each set of Christmas Equation Task Cards and record your findings on this page.

5



=



=



=



=

? =

6



=



=



=



=

? =

7



=



=



=



=

? =

8



=



=



=



=

? =

Christmas Equations

Name _____

Directions: Solve each set of Christmas Equation Task Cards and record your findings on this page.

9



=



=

10



=



=



=



=



=



=



=



=

11



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12



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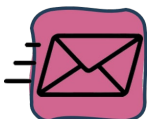
Meet the author:



My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

Jean Adams

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