TERMINOLOGY BINGO

OBJECTIVES:

M051B.02   To apply the properties of the operations of addition and multiplication to simplify expressions

M051B.06   To apply the properties to solve open sentences

PREREQUISITES:

To know the definition of an open sentence

To know and recognize the properties used in solving open sentences

MATERIALS NEEDED:

Transparencies or poster board cut into pieces

Copy of Bingo card for each student

INSTRUCTIONS TO THE TEACHER FOR MAKING ACTIVITY:

1. Cut cards (with answers) between double lines. (Transparency). Write the equations on the front and the answer on the back. (Poster Board)

2. Make a copy of the Bingo card for each student.

INSTRUCTIONS TO THE TEACHER FOR CONDUCTING ACTIVITY:

1. Give each student a Bingo card.

2. Decide what blocks a student must cover to win.

3. Show each problem, one at a time, on the overhead. Cover the answer and show the problem for 10 seconds or hold up the poster board for 10 seconds.

DIRECTIONS TO THE STUDENT:

1. You will write, in ink, 16 numbers from the list of 26 numbers given.

2. Solve both equations as they appear on the overhead or card held by the teacher. Use the result in the third equation to find the answer.

3. After answer is found for the third equation, check your Bingo Card. If the answer is on the Bingo card, mark it with the letter of the problem card shown to the class.

4. Play continues until someone has won.

VARIATIONS:

1. The teacher may let students work in pairs.

2. This could be used as a concentration game. There are directions in Appendix 1.

BINGO CARD

Choose 16 of these answers for the Bingo squares.

13	-21	-12	-15	-19
7	-3	-8	6	28
-6	$5\frac{1}{2}$ or 5.5	2	17	-10
22	-1	-2	$-24\frac{1}{2}$ or -24.5	172
0	-6.1	$1\frac{1}{2}$ or 1.5	18	36
				11

Solve each equation: Answers

Card A:

$$x + 5 = 6$$

$$a - 3 = 9$$

$$x + a =$$

$$x = 1$$

$$a = 12$$

$$x + a = 13$$

Card B:

$$2w + 2 = 26$$

$$3b - 5 = 10$$

$$w - b =$$

$$w = 12$$

$$b = 5$$

$$w - b = 7$$

Card C:

$$\frac{x}{3} - 9 = 3$$

$$-5t = 30$$

$$x + t =$$

$$x = 36$$

$$t = -6$$

$$x + t = -6$$

Card D:

$$3b = 21$$

$$\frac{2}{3}w = -10$$

$$b - w =$$

$$b = 7$$

$$w = -15$$

$$b - w = 22$$

Solve each equation: Answers

Card E

$$-8 = -\frac{1}{2}x$$

$$5a - 1 = 19$$

$$x - 4a =$$

$x = 16$

$a = 4$

$x - 4a = 0$

Card F

$$-4y + 2 = 22$$

$$2w = 6$$

$$3y - 2w =$$

$y = -5$

$w = 3$

$3y - 2w = -21$

Card G

$$2n + 3 = 15$$

$$3x + 2 = 11$$

$$n - 3x =$$

$n = 6$

$x = 3$

$n - 3x = -3$

Card H

$$10y - 5 = 50$$

$$2w - 1 = 10$$

$$2y - w =$$

$y = 5\frac{1}{2}$ or 5.5

$w = 5\frac{1}{2}$ or 5.5

$2y - w = 5.5$ or $5\frac{1}{2}$

Solve each equation:

Solve each equation:	Answers
Card I $x + 12 = 2$ $-3y = 27$ $x - y =$	$x = -10$ $y = -9$ $x - y = -1$
Card J $1.5k = -10.65$ $j - 1 = 0$ $k + j =$	$k = -7.1$ $j = 1$ $k + j = -6.1$
Card K $2.5t = 5$ $0 = -15t + r$ $9t - r =$	$t = 2$ $r = 30$ $9t - r = -12$
Card L $x + 2 = -4$ $12 = -\frac{3}{5}y$ $2x - y =$	$x = -6$ $y = -20$ $2x - y = 8$

Solve each equation: Answers

Card M

$$-7w = 0$$

$$2p - 1 = 3$$

$$6w + p =$$

$$w = 0$$

$$p = 2$$

$$6w + p = 2$$

Card N

$$3m + 2 = -7$$

$$-5n + 1 = 6$$

$$m - n =$$

$$m = -3$$

$$n = -1$$

$$m - n = -2$$

Card O

$$4a - 13 = -19$$

$$27 - 2b = 15$$

$$3a + b =$$

$$a = -1\frac{1}{2} \text{ or } -1.5$$

$$b = 6$$

$$3a + b = 1.5$$

Card P

$$2y - 2 = 4$$

$$7 - 2z = 9$$

$$5yz =$$

$$y = 3$$

$$z = -1$$

$$5yz = -15$$

Solve each equation:

	Answers
Card Q	
$18 - \dfrac{4}{3}C = -6$	$c = 18$
$7d + 3 = 45$	$d = 6$
$\dfrac{2c}{d} =$	$\dfrac{2c}{d} = 6$
Card R	
$7x + 5(3x - 2) = 56$	$x = 3$
$3y - 2(-4y + 2) = 18$	$y = 2$
$x^2 + y^3 =$	$x^2 + y^3 = 17$
Card S	
$-4a + 3(2a + 6) = -10$	$a = -14$
$22 = 5x - (3x - 1)$	$x = 10\dfrac{1}{2}$ or 10.5
$a - x =$	$a - x = -24\dfrac{1}{2}$ or -24.5
Card T	
$36e - 12 = 60$	$e = 2$
$7f + 37 = 44$	$f = 1$
$9ef =$	$9ef = 18$

Solve each equation:

	Answers
Card U	
18 - 54 - 3y. $3x + 50 = 11$ $7y - 5x =$	$y = -12$ $x = -13$ $7y - 5x = -19$
Card V $41 = 5d - 29$ $9 - 6c = 15$ $2dc^2 =$	$d = 14$ $c = -1$ $2dc^2 = 28$
Card W $-2y - 22 = 4$ $17 + 8 = 10w - 5$ $y + w =$	$y = -13$ $w = 3$ $y + w = -10$
Card X $\frac{1}{6}y - \frac{7}{8} = 11\frac{1}{8}$ $2(x + 3) = 23 + 3$ $y + x^2 =$	$y = 72$ $x = 10$ $y + x^2 = 172$

Solve each equation:

Card Y	Answers
$2 - 3a = 8$ $b + 4b = 15$ $a^2b^2 =$	$a = -2$ $b = 3$ $a^2b^2 = 36$
Card Z $4x - 2(7 + 3x) = 14$ $\frac{1}{10}\left(y - \frac{1}{2}\right) + \frac{1}{5}(4 - y) = \frac{1}{4}$ $x + y^2 =$	$x = -14$ $y = 5$ $x + y^2 = 11$