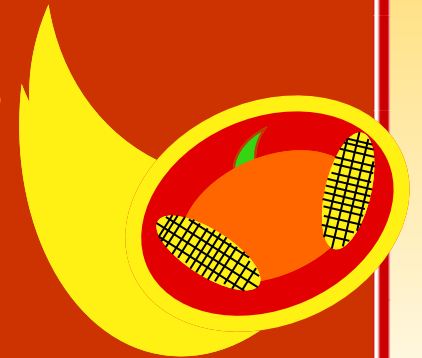
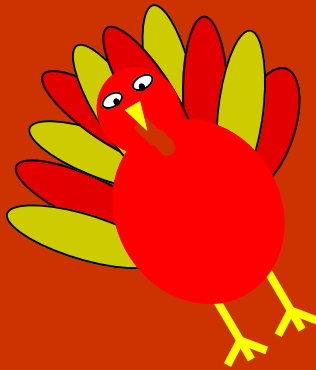


Thanksgiving Solving Inequalities 4 x 4 Puzzles



Directions:

Print out the desired puzzle and pass out to students to cut out the pieces. The students must match up the solution to the original inequality to correctly complete the 4 x 4 grid. Three versions of the puzzle are included, (with corresponding answer keys) 1 with 4 graphics, 1 with 9 graphics, and 1 with 16 graphics. As the number of graphics increases, so does the difficulty, as it doesn't help the students put the grid together as much.

Another option is to laminate the puzzles, and cut them out prior to giving to students so that the puzzles can be reused.

What has been successful for us is to give points for correctly completing the puzzle, and extra credit points for the first few groups that finish. The Roman numerals are there so that you may check the accuracy faster.

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Thanksgiving—Solving Inequalities Puzzle

$x < -11$ XVI $-4(-5+x) > 56$	$x > -6$ I $x < -10$	$-2x-12 < 0$ VIII $x < -24$	$-0.5x < 35$ XV $x > -49$
$x > 3$ IV $-9x < 90$	$x \leq 6$ VI $15 + x < -9$	$x > 2$ V $x > -49$	$x > -9$ XI $-32 > x - 7$
$x > -9$ II $2x-4 > 10$	$-16x \geq -80$ XIII $x+17 > -32$	$2x-12 < 0$ XII $x < -9$	$4x+48 > 0$ III $4(2+x) > 12$
$2x-4x < -18$ IX $-32 > x - 7$	$x > -6$ VII $x < 9$	$x \leq 6$ X $-4(-5+x) > 56$	$x > -20$ XIV $x < -25$
$10x - 75 \leq -15$	$x > -12$	$-7x - 17 < 25$	$x < -6$

Thanksgiving—Solving Inequalities Puzzle Answer Key

$x > -6$ $x < -10$ I	$x < -11$ $x < -11$ XVI	$2x - 12 < 0$ $x < -9$ XII	$x > -9$ $x > -9$ II
$6x \leq 36$ $x \leq 6$ X	$3x - 9 < 51$ $x > 9$ $2x - 4x < -18$ IX	$-4(-5+x) > 56$ $x > -20$ XIV	$-4(-5+x) > 56$ $x > -9$ XI
$-7x - 17 < 25$ $x > -6$ VII	$-21 - 3x > 6$ $x < -9$ $10x - 75 \leq -15$ $x \leq 6$ VI	$-32 > x - 7$ $x < -25$ XIII	$-32 > x - 7$ $x > -9$ IV
$4(2+x) > 12$ $x < 9$ III	$-8x < -96$ $x > -12$ $5(x-10) > 0$ $x > 2$ V	$15 + x < -9$ $x < -24$ VIII	$15 + x < -9$ $x > 3$ IV
$4x + 48 > 0$ $x \leq 5$ III	$-33 + 7x < 44$ $x < 11$ $10x - 75 \leq -15$ $x > -13$ XIII	$x + 17 > -32$ $x \leq 5$ $-16x \geq -80$ $x > -13$ XIII	$-9x < 90$ $x > -70$ $-0.5x < 35$ $x > -49$ XV
$x \leq 5$ III	$10x - 75 \leq -15$ V	$x > -13$ XIII	$4x < 20$ XV










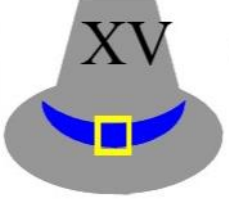
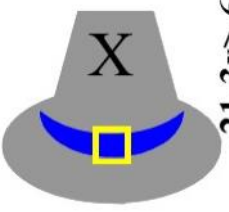





Thanksgiving—Solving Inequalities Puzzle

$2x - 4x < -18$ $x < -9$ IX $-32 > x - 7$ $10x - 75 \leq -15$	$2x - 12 < 0$ $x < -24$ VIII $-9x > -63$ $x \leq 5$	$x > -20$ $x < -25$ XIV $-7x - 14 < -42$ $x < -6$	$46x \geq 460$ $x + 17 > 32$ XIII $x \leq 48$ $x > -13$
$x < -11$ $x < 14$ XVI $x > 9$ $-4(-5+x) > 56$	$x > -6$ $x < -10$ I $3x + 9 < 51$ $6x \leq 36$	$x > 2$ $x < 11$ V $x > -49$ $10x - 75 \leq -15$	$x > -9$ $x > 4$ XI $-32 > x - 7$ $-18x - 2 < -56$
$4x + 48 > 0$ $4(2+x) > 12$ III $x \leq 5$ $-33 + 7x < 44$	$-0.5x < 35$ $-2x \geq -96$ XV $4x < 20$ $x > -49$	$x \leq 6$ $x > 12$ VI $15 + x < -9$ $5(x - 10) > 0$	$x > -9$ $x > 1$ II $2x - 4 > 10$ $-x + 6x > -45$
$x \leq 6$ $-4(-5+x) > 56$ X $-21 - 3x > 6$ $-7x - 17 < 25$	$2x - 12 < 0$ $x < -9$ XII $4(2+x) > 12$ $-x - 3 < 15$	$x > 3$ $x < 7$ IV $-9x < 90$ $x > -70$	$x > -6$ $x < 9$ VII $-8x < -96$ $x > -12$

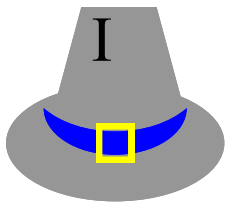
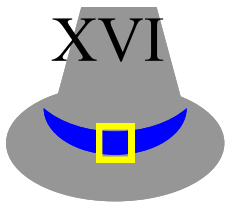
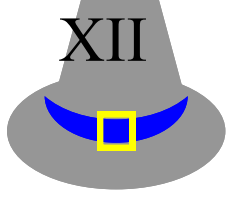
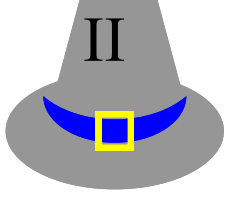
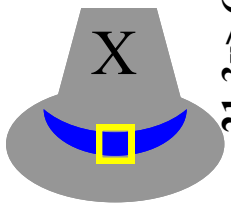
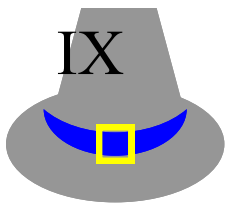

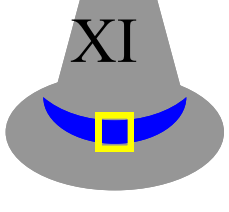
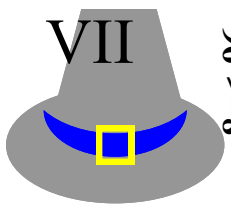


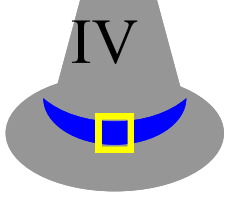
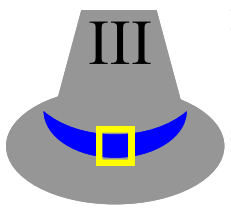
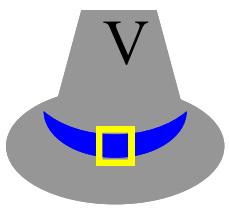
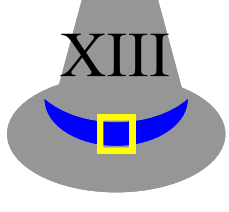
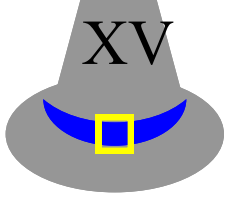
Thanksgiving—Solving Inequalities Puzzle Answer Key

$x < -10$ I $6x \leq 36$	$x < -11$ XVI $x > 9$	$2x - 12 < 0$ XII $x < -9$	$x > -9$ II $2x - 4 > 10$
$x \leq 6$ X $-7x - 17 < 25$	$x < -9$ IX $10x - 75 \leq -15$	$x < -25$ XIV $x < -6$	$x > -9$ XI $-18x - 2 < -56$
$x > -6$ VII $x > -12$	$x \leq 6$ VI $5(x - 10) > 0$	$x < -24$ VIII $x \leq 5$	$x > 3$ IV $x > -70$
$x < 9$ III $4x + 48 > 0$	$x > 12$ V $x > 2$	$15 + x < -9$ $x < -24$ XIII $x > -13$	$x < 7$ IV $x > -70$
$4(2+x) > 12$ $x \leq 5$	$x < 11$ V $10x - 75 \leq -15$	$x > -49$ $x + 17 > -32$	$x > -49$ XV $4x < 20$

Thanksgiving—Solving Inequalities Puzzle

$-2x-12 < 0$  $x < -24$ $-9x > -63$ $x \leq 5$	$x < -11$  $x < 14$ $-4(-5+x) > 56$ $x > 9$	$x > -6$  $x < 9$ $-8x < -96$ $x > -12$	$2x-4x < -18$  $x < -9$ $-32 > x - 7$ $10x - 75 \leq -15$
$4x+48 > 0$  $4(2+x) > 12$ $-33+7x < 44$ $x \leq 5$	$2x-12 < 0$  $x < -9$ $4(2+x) > 12$ $-x - 3 < 17$	$x > 2$  $x < 11$ $x > -49$ $10x - 75 \leq -15$	$x > -9$  $x > 4$ $-32 > x - 7$ $-18x-2 < -56$
$x > -6$  $x < -10$ $3x+9 < 51$ $6x \leq 36$	$-0.5x < 35$  $-2x \geq -96$ $x > -49$ $4x < 20$	$x \leq 6$  $-4(-5+x) > 56$ $-21-3x > 6$ $-7x - 17 < 25$	$-16x \geq -80$  $x+17 > -32$ $x \leq 48$ $x > -13$
$x > 3$  $x < 7$ $-9x < 90$ $x > -70$	$x > -20$  $x < -25$ $-7x - 14 < -42$ $x < -6$	$x > -9$  $x > 1$ $2x-4 > 10$ $-x+6x > -45$	$x \leq 6$  $x > 12$ $15 + x < -9$ $5(x-10) > 0$

Thanksgiving—Solving Inequalities Puzzle Answer Key

$x > -6$ $x < -10$  $3x+9 < 51$ $6x \leq 36$	$x < -11$ $x < 14$  $-4(-5+x) > 56$ $x > 9$	$2x-12 < 0$ $x < -9$  $4(2+x) > 12$ $-x - 3 < 17$	$x > -9$ $x > 1$  $2x-4 > 10$ $-x+6x > -45$
$x \leq 6$ $-4(-5+x) > 56$  $-21-3x > 6$ $-7x - 17 < 25$	$2x-4x < -18$ $x < -9$  $-32 > x - 7$ $10x - 75 \leq -15$	$x > -20$ $x < -25$  $-7x - 14 < -42$ $x < -6$	$x > -9$ $x > 4$  $-32 > x - 7$ $-18x-2 < -56$
$x > -6$ $x < 9$  $-8x < -96$ $x > -12$	$x \leq 6$ $x > 12$  $15 + x < -9$ $5(x-10) > 0$	$-2x-12 < 0$ $x < -24$  $-9x > -63$ $x \leq 5$	$x > 3$ $x < 7$  $-9x < 90$ $x > -70$
$4x+48 > 0$ $4(2+x) > 12$  $-33+7x < 44$ $x \leq 5$	$x > 2$ $x < 11$  $x > -49$ $10x - 75 \leq -15$	$-16x \geq -80$ $x+17 > -32$  $x \leq 48$ $x > -13$	$-0.5x < 35$ $-2x \geq -96$  $x > -49$ $4x < 20$

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