



Name \_\_\_\_\_ Date \_\_\_\_\_

# Clover Hidden Message

Find the inequality that matches each algebraic phrase and circle it. Solve the inequality and find the answer in the boxes at the bottom. Write in the letter associated with the inequality to solve the puzzle. Some answers can be used more than once!

## What do you get when you cross poison ivy with a four-leaf clover?

Find the inequality that matches each verbal phrase.

- The difference between three times  $x$  and fifteen is greater than or equal to five
- Five more than sixteen times  $x$  is less than or equal to six
- Three more than two times  $x$  is less than seven
- Five less than four times  $x$  is less than or equal to sixteen
- Six times the sum of  $x$  and twelve is less than fourteen
- The difference between fifteen and two times  $x$  is greater than five
- The difference between eleven and four times  $x$  is greater than or equal to three
- The sum of negative three times  $x$  and five is less than or equal to negative four
- Fourteen less than five times  $x$  is at most eleven
- Twice the sum of nine and  $x$  is greater than twenty
- Ten less than three times  $x$  is greater than eleven
- Thirteen plus five times  $x$  is no more than thirty

- Thirteen more than three times  $x$  is no more than the opposite of eleven
- Half of the sum of  $x$  and six is no less than twenty
- The difference between negative five times  $x$  and eight is greater than twelve.

Solve only your inequalities! Look for your answer at the bottom.

- |   |                            |   |                              |
|---|----------------------------|---|------------------------------|
| N | $2x + 3 \leq 7$            | E | $14 - 5x \leq 11$            |
| C | $15 - 2x > 5$              | K | $2(9 + x) > 20$              |
| F | $13 + 5x \leq 30$          | D | $6(x + 12) < 14$             |
| E | $\frac{1}{2}x + 6 \geq 20$ | A | $2x + 3 < 7$                 |
| G | $-3x + 5 \leq -4$          | W | $3x + 13 \leq 11$            |
| O | $4x - 5 \leq 16$           | M | $2x - 15 > 5$                |
| N | $6x + 12 < 14$             | T | $11 + 4x \geq 3$             |
| L | $5x - 14 \leq 11$          | H | $-3x - 5 < -4$               |
| U | $3x - 15 \geq 5$           | A | $\frac{1}{2}(x + 6) \geq 20$ |
| E | $6(x - 12) > 14$           | H | $11 - 4x \geq 3$             |
| O | $3x - 10 > 11$             | O | $-5x - 8 > 12$               |
| V | $16x + 5 < 6$              | K | $3x + 13 \leq -11$           |
| Y | $4x - 5 \geq 16$           | S | $16x + 5 \leq 6$             |

< 2	≥ 0.3	> 1	≥ 34	≤ 0.06	≤ 2	≥ 0.6	≤ 5.25	≤ 3.4	≥ -2	≥ 3	< -4	> 7	< -9.66	≥ 5.25	≤ 5	≥ 6.66	< 5	≤ -8
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