

# solving Linear Inequalities Hangman

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| <p><b>Directions:</b> Complete the hangman message. Choose a letter and solve the linear inequality. Write down the solution set of your choice. Check to see if the student matches the chosen letter. Add a body part if you solve the inequality.</p> |   |  |
| <b>A</b><br>$6 > -\frac{2}{3}(7x + 2)$   | <b>J</b><br>$-\frac{2}{3}(3 - 4x) + 8 > 18$ | <b>S</b><br>$-2x - 5x + 3 < 10$                  |
| <b>B</b><br>$-\frac{1}{2}(x - 9) + 4 < -2$   | <b>K</b><br>$-3(4 + 2x) < 18$               | <b>T</b><br>$-2x + 12x - 4.5x - 4.5x$            |
| <b>C</b><br>$-\frac{1}{4}x - 8 < \frac{2}{4}$  | <b>L</b><br>$-2x + 12x - 4.5x - 4.5x$       | <b>U</b><br>$2 - 3(x + 4) < 17$                  |
| <b>D</b><br>$-\frac{2}{3}(3 + 4x) + 8 < 18$  | <b>M</b><br>$18 < -2x - 5x + 3$             | <b>V</b><br>$\frac{2.5x - 4.8}{-2} + 3.2 < -8.7$ |
| <b>E</b><br>$\frac{2.5x - 4.8}{-2} + 3.2 > -8.7$   | <b>N</b><br>$-2 < -\frac{1}{2}(x - 9) + 4$  | <b>W</b><br>$-\frac{2}{3}(3 + 4x) + 8 > 18$      |
| <b>F</b><br>$7(2 - x) + 9 > 2$   | <b>O</b><br>$-\frac{2}{3}(3 - 4x) + 8 < 18$ | <b>X</b><br>$-3x + 4 < 5$                        |
| <b>G</b><br>$2 - 3(x + 4) > 17$  | <b>P</b><br>$-\frac{1}{2}(3x - 9) + 4 > -2$ | <b>Y</b><br>$-3(4 + 2x) > 18$                    |
| <b>H</b><br>$-\frac{1}{2}(3x - 9) + 4 < -2$  | <b>Q</b><br>$-3x + 4 > 5$                   | <b>Z</b><br>$-\frac{1}{4}x - 8 > \frac{2}{4}$    |
| <b>I</b><br>$-\frac{2}{3}(7x + 2) > 6$   | <b>R</b><br>$7(2 - x) + 9 < 2$              |  |