

Name - _____

Start time - __: __

End time - __: __

Solve the following inequalities.

Solve the following inequalities. Show each solution on a number line.

- a) $7 < x + 3 \leq 15$
- b) $2 \leq x - 4 \leq 12$
- c) $-1 \leq x + 5 \leq 4$
- d) $21 \leq x - 16 \leq 44$

Solve the following inequalities, giving your answers using set notation.

- a) $16 < 4x < 28$
- b) $32 < 2x \leq 42$
- c) $27 < 4.5x \leq 72$
- d) $-22.5 \leq 7.5x < 30$

Solve the following inequalities:

- a) $8 < 3x - 4 \leq 26$
- b) $-42 < 7x + 7 \leq 91$
- c) $5.1 \leq -x + 2.5 < 9.7$
- d) $5.6 < -x - 6.8 < 12.9$
- e) $17 < 6x + 5 < 29$
- f) $-2 < 2x + 3 < 5$

Find the integer solutions that satisfy both of the inequalities.

- a) $24 > 8x$ and $9x - 18$
- b) $-3 > 2x + 5$ and $-4x \leq 32$
- c) $9 - x > 8x + 9$ and $2x + 9 > 3$

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