

4. Which operation will you perform on each side of the inequality to isolate the variable?

[Classwork / Homework:](#)

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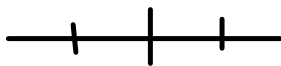
a) $a + 4 > 3$

b) $0 < -\frac{2}{3} + m$



c) $r - 4 \geq -3$

d) $k - 4.5 \leq 5.7$



e) $s + \frac{3}{10} \leq -3$

f) $6.1 > 4.9 + z$



6. State three values of x that satisfy each inequality: one integer, one fraction, and one decimal.

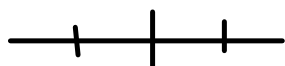
a) $x + 3 \geq 7$



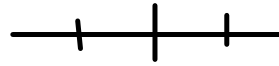
b) $x - 3 \leq 7$



c) $x + 7 < 3$



d) $x - 3 > 7$



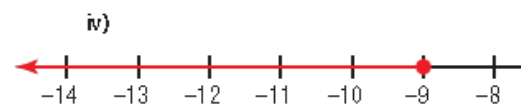
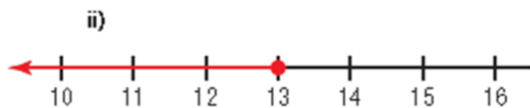
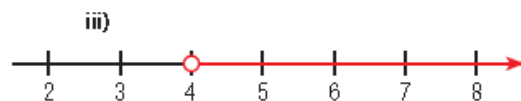
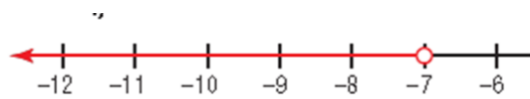
7. Match each inequality with the graph of its solution below. Is 3 a possible solution of each inequality? How can you find out?

a) $c - 2 > 2$

b) $8 \geq -5 + w$

c) $1 > r + 8$

d) $7 + m \leq -2$



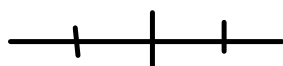
9. Solve each inequality. Graph the solution.

Show the steps in the solution.

Verify the solution by substituting 3 different numbers in each inequality.

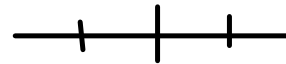
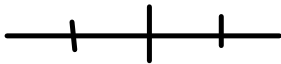
a) $4t - 19 < 24 + 3t$

b) $3x < 2x - 11$

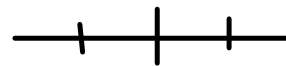


c) $5x - 7 < 4x + 4$

d) $2 + 3a \leq 2a - 5$



$$\text{e) } 1.7p + 2.8 \geq 0.7p - 7.6 \quad \text{f) } 2y + 13.3 \geq y - 24.1$$

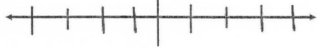


Math 9

Worksheet: Section 6.4

Instructions: Solve each inequality and graph the solution

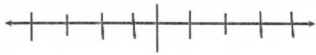
1) $x + 14 > 10$



2) $15 + n \leq -2$



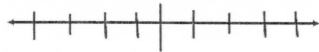
3) $\frac{v}{6} < 16$



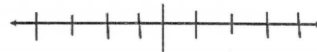
4) $-19 < k - 18$



5) $a - 6 \leq 6$



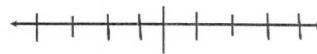
6) $9x \leq 153$



7) $-7 > \frac{p}{2} - \frac{2}{3}$



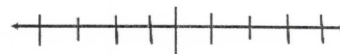
8) $11n < 121$



9) $-18 \leq \frac{m}{2} + 3$

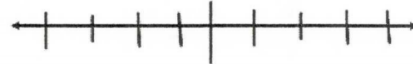


10) $\frac{p}{19} < \frac{-5}{19}$



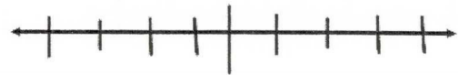
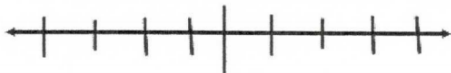
11) $-3x + \frac{2}{5} > \frac{-x}{2} - 6$

12) $-4x + 9 \geq -7x + 18$



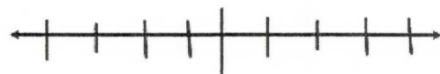
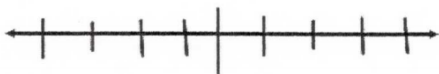
13) $-14 - 3n - 7n < 7 - 7n$

14) $1 - k \geq 5k + 3 + 3 + 13$



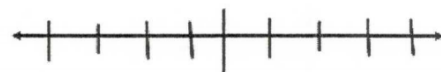
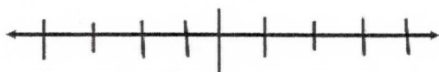
15) $5 - 7p < 3 + 7p + 2$

16) $-2 + 6x \geq x - 2$



17) $-6 - 5n + n \leq -3n - 2n$

18) $12 - 6r < 5 - 5r$



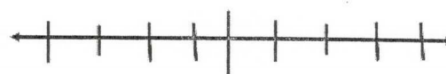
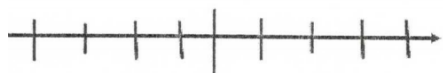
19) $-12 + 8m - 4m > 7m + 6 + 3m$

20) $-15 - 7x - 2x < -5x - 7x$



21) $n + 5 > 5n - 8n - 3$

22) $2b - 8b > -16 + 8 - 4b - 2$



23) $\frac{3}{5}(x + 15) \leq \frac{1}{10}(20x - 30)$

24) $\frac{m}{4} - 2 \geq 6 - \frac{m}{3}$

