

- 1) Solve each inequality.
- 2) Express the solution set in set notation.
- 3) Express the solution set graphically on the number line.

a.  $2x < 10$

b.  $-15x \geq -45$

c.  $\frac{2}{3}x < \frac{1}{2} + 2$

d.  $-5(x-1) \geq 10$

e.  $45 > 12x + 3(x-8) - 6$

f.  $13x < 9(1-x)$

g.  $-4 + 2x - 14 - 18x > -6 - 100x$

h.  $5x + 2 \geq x + \frac{2}{5}$

j.  $9(9x-4) > 12(12x-3)$

k.  $7(5x-4) - (2+15x) < 60$