1. Solve for x and represent your answer on a number line.

(a) $5x-3>7$ (b) $3x-2>5$ (c) $x+1>4$

(d) $2x+5\le 2$ (e) $3x+7\ge 1$ (f) $x+9\le 2$

(g) $\frac{x-3}{3}>9$ (h) $\frac{2x+5}{2}\le 6$ (i) $\frac{3x+1}{5}\ge 10$

2. For each number line describing x write down the inequality.

(a) 

(b) 

(c) 

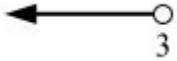
(d) 

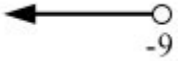
(e) 

(f) 

(g) 

(h) 

(i) 

(j) 

(k) 

(l) 

3. Solve for x.

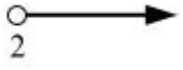
(a) $6\le x+3<9$ (b) $3\le x+2<5$ (c) $4\le x+1<7$

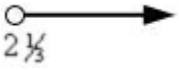
(d) $-3<2x+1<5$ (e) $-1<2x+6\le 8$ (f) $-6\le 3x+2\le 8$

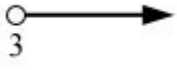
(g) $-7<x-2\le -5$ (h) $-6>3x+2\ge -10$ (i) $-8\le x+6\le 8$

(j) $5<\frac{2x+1}{5}\le 10$ (k) $6\le\frac{x-1}{3}<24$ (l) $8\le\frac{3x-4}{4}\le 16$

1.

(a) $x > 2$ 

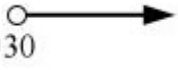
(b) $x > 2\frac{1}{3}$ 

(c) $x > 3$ 

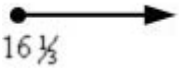
(d) $x \leq -1\frac{1}{2}$ 

(e) $x \geq -2$ 

(f) $x \leq -7$ 

(g) $x > 30$ 

(h) $x \leq 3\frac{1}{2}$ 

(i) $x \geq 16\frac{1}{3}$ 

2.

(a) $x \leq 4$ (b) $x \leq 6$ (c) $x > 7$ (d) $x > 4$

(e) $-2 \leq x < 7$ (f) $-1 \leq x \leq 2$ (g) $-3 < x \leq 5$ (h) $3 < x < 7$

(i) $x < 3$ (j) $x < -9$ (k) $x \geq -2$ (l) $x \geq 15$

3.

(a) $3 \leq x < 6$ (b) $1 \leq x < 3$ (c) $3 \leq x < 6$

(d) $-2 < x < 2$ (e) $-3\frac{1}{2} < x \leq 1$ (f) $-2\frac{2}{3} \leq x \leq 2$

(g) $-5 < x \leq -3$ (h) $-2\frac{2}{3} > x \geq -4$ (i) $-14 \leq x \leq 2$

(j) $12 < x \leq 24\frac{1}{2}$ (k) $19 \leq x < 73$ (l) $12 \leq x \leq 22\frac{2}{3}$