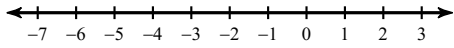


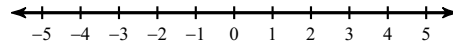
Unit 1.7 Examples Solving Multi-Step Inequalities

Solve each inequality. Graph its solution. Write the interval notation.

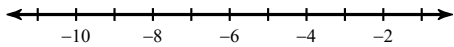
1) $0 > -x + 4x$



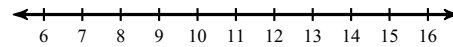
2) $-3 < -b + 2b$



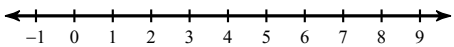
3) $-10 \geq 2 - n + 4n$



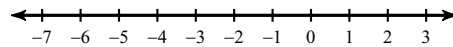
4) $0 \geq 4p - 4p$



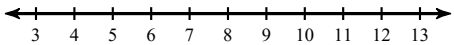
5) $2 > 4 - 4a + 3a$



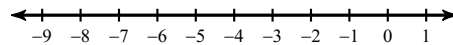
6) $0 \leq 4r + 2r$



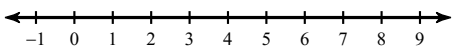
7) $1 \leq 4k - 4k$



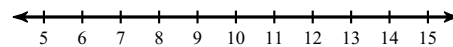
8) $1 < 1 + 2m + 4$



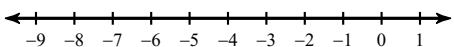
9) $1 < -3r + 4r$



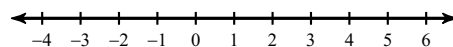
10) $0 \geq p - p$



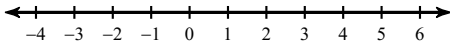
11) $-5 \leq 1 + 4v - 2v$



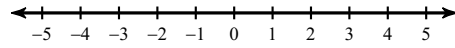
12) $5 \leq x + 3 + 4$



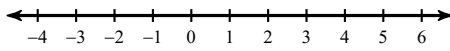
$$13) 2(a+2) \leq 4(a-1)$$



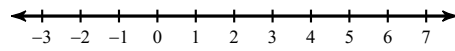
$$14) 2(b-1) + 2(4b+3) > 1-b+3$$



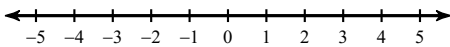
$$15) 2(1+n) - 2(1+n) \geq -3n + 4n$$



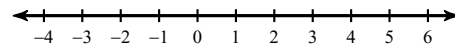
$$16) -4(4+4n) < -4n - 2(4+2n)$$



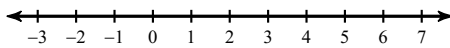
$$17) -x - 2x \leq -2(-2 - 4x) - 2(3x - 3)$$



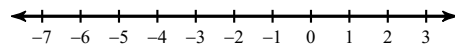
$$18) -4(b-1) \leq -4(2+4b)$$



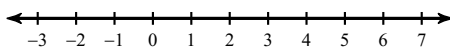
$$19) -2(1+4x) + 3x \geq x - 4(x+3)$$



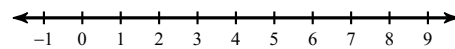
$$20) -2(1-4x) \geq 3(4-2x)$$



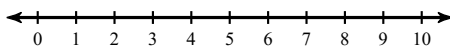
$$21) -3(-3+4v) > 4v - 3(-2v-3)$$



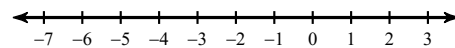
$$22) 3(b-3) + 3 \leq -(2b-1) + 4b$$



$$23) 3(k+4) > 2(3k-3) + 3k$$



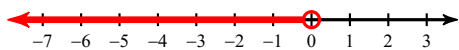
$$24) 4p - p < 2(-p-2) - (1-4p)$$



Unit 1.7 Examples Solving Multi-Step Inequalities

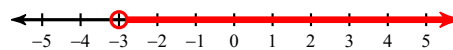
Solve each inequality. Graph its solution. Write the interval notation.

1) $0 > -x + 4x$



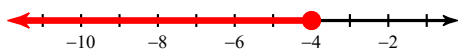
$x < 0$

2) $-3 < -b + 2b$



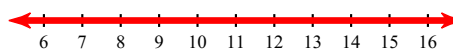
$b > -3$

3) $-10 \geq 2 - n + 4n$



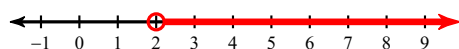
$n \leq -4$

4) $0 \geq 4p - 4p$



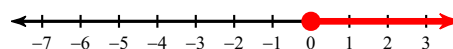
$\{ \text{All real numbers.} \}$

5) $2 > 4 - 4a + 3a$



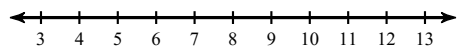
$a > 2$

6) $0 \leq 4r + 2r$



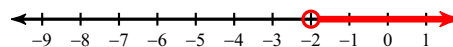
$r \geq 0$

7) $1 \leq 4k - 4k$



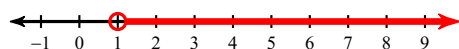
No solution.

8) $1 < 1 + 2m + 4$



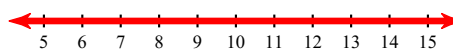
$m > -2$

9) $1 < -3r + 4r$



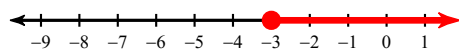
$r > 1$

10) $0 \geq p - p$



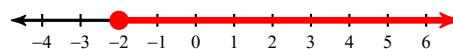
$\{ \text{All real numbers.} \}$

11) $-5 \leq 1 + 4v - 2v$



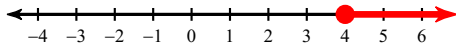
$v \geq -3$

12) $5 \leq x + 3 + 4$



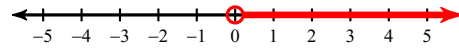
$x \geq -2$

$$13) 2(a+2) \leq 4(a-1)$$



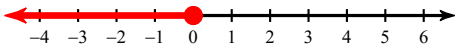
$$a \geq 4$$

$$14) 2(b-1) + 2(4b+3) > 1-b+3$$



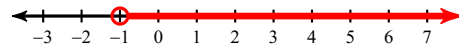
$$b > 0$$

$$15) 2(1+n) - 2(1+n) \geq -3n + 4n$$



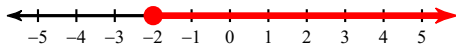
$$n \leq 0$$

$$16) -4(4+4n) < -4n - 2(4+2n)$$



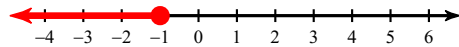
$$n > -1$$

$$17) -x - 2x \leq -2(-2 - 4x) - 2(3x - 3)$$



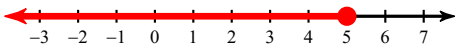
$$x \geq -2$$

$$18) -4(b-1) \leq -4(2+4b)$$



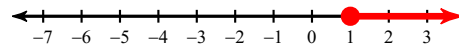
$$b \leq -1$$

$$19) -2(1+4x) + 3x \geq x - 4(x+3)$$



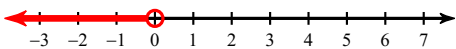
$$x \leq 5$$

$$20) -2(1-4x) \geq 3(4-2x)$$



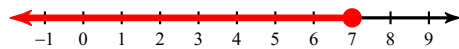
$$x \geq 1$$

$$21) -3(-3+4v) > 4v - 3(-2v-3)$$



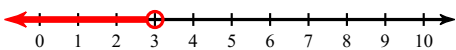
$$v < 0$$

$$22) 3(b-3) + 3 \leq -(2b-1) + 4b$$



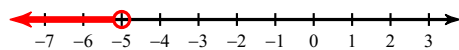
$$b \leq 7$$

$$23) 3(k+4) > 2(3k-3) + 3k$$



$$k < 3$$

$$24) 4p - p < 2(-p-2) - (1-4p)$$



$$p < -5$$