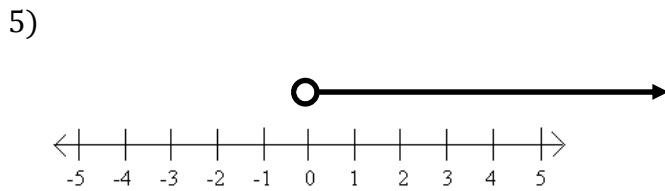
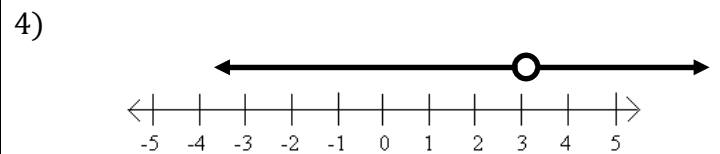
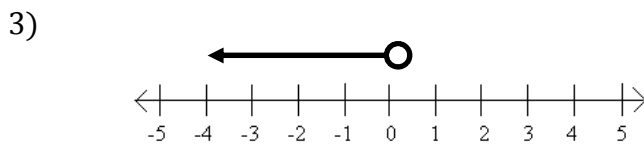
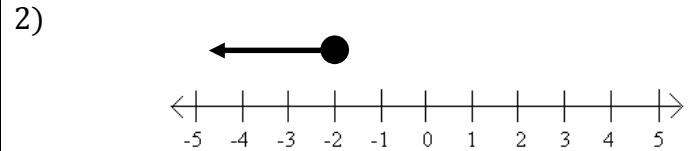
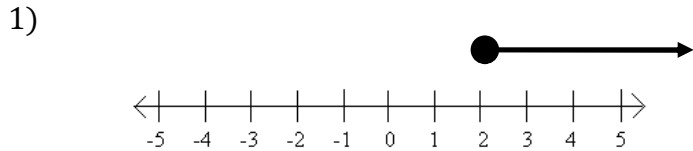


# Unit 4: Equalities Day 6

Math 9 Principles

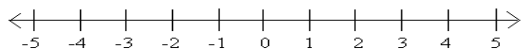
**4-5 I can solve inequalities and graph the result on a number line.**

Write an inequality that describes each range of values illustrated by each graph. Use the variable  $x$ .

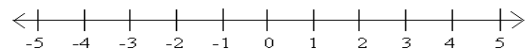


Graph each inequality on a number line.

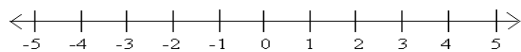
7)  $x < 3$



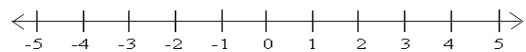
8)  $x \neq 2$



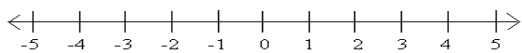
9)  $x \leq -2$



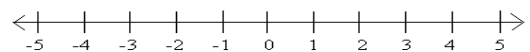
10)  $x > 4$



11)  $x \neq 0$



12)  $x \geq -1$



Divide to solve each

13) $-2x < 6$	14) $-3x \geq -12$
15) $-4x \leq 16$	16) $-5x > -20$
17) $-6x < -15$	18) $-7x \geq 56$
19) $-8x \leq -36$	20) $-9x > 24$

Solve each inequality. Show your work.

21) $-2 < 7 + x$	22) $4 \geq -4 - x$	23) $2x \leq 3x + 2$
24) $-4x > -8$	25) $2 + 3x > x - 4$	26) $8 \geq 3(x - 5)$
27) $-4 > 2 - 3x$	28) $8 \geq 2 + 5x$	29) $6 < -2x - 4$
30) $-7x - 2 \leq 3x + 8$	31) $-2(x - 4) > 6(x - 2)$	

$$32) 5x + 2 > 3x + 10$$

$$33) 8 + 2x \leq 6x - 20$$

$$34) 4x + 49 < 9 - x$$

$$35) 9x - 99 \geq 18x$$

$$36) 3(x - 4) > 15$$

$$37) 28 < 4(5 - 2x)$$

$$38) 3(2n + 1) \geq 4n + 9$$

$$39) 3n - 10 \leq 7(2 + n)$$

$$40) -4(2n - 6) < n + 6$$

$$41) 2(7n - 1) \geq 3(5 - n)$$

$$42) 7n - 2(n + 5) < 3n - 16$$