


Bell Ringer

Section 1.7

1. What are the solutions of $5 + 6t > 17$?
 $6t > 12$ $t > 2$

2. You want to fence off a rectangular garden that is adjacent to a building, using a wall as one side. The length of the building is 12 ft. You have 32 ft of fencing. What are the possible widths of the garden?
 $W \leq 10$ ft
 $W \leq 4$ ft
 20 ft
 12


3. Which is a solution of $2(x + 5) - x \leq 3$?
 A. -7 B. -1 C. 1 D. 7

4. What is the solution of $\frac{3x + \frac{x}{2}}{7} \geq 20$?
 $2 \frac{3x}{1} \frac{1}{2}$
 $6x - 7x = 280$
 $-x = 280$
 $x = -280$

correct hw 1.6 9-13, ~~17-21~~ (skip 19), 23-33 odds

5 18/20, 21 6 ~~1/14~~
 $\frac{\text{Correct}}{14} \times 10$
 round up $\frac{3}{14}$

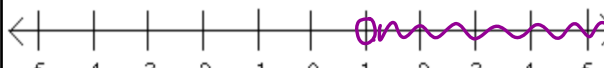
due tomorrow:
 hw 1.7: 11-18 all, 19-27 odds, 37, 38

Aug 28-3:31 PM

Interval Notation.... not in book

Graph the inequality, then write the solution in Interval Notation

$x > 1$ $1 < x$



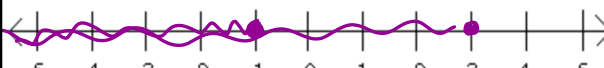
$[] (1, \infty)$

Aug 29-12:32 PM

Aug 29-8:34 AM

Graph the inequality, then write the solution in Interval Notation


$x \leq -1$



$(-\infty, -1]$ $(-\infty, 3]$

Graph the inequality, then write the solution in Interval Notation

$x > -4$



$(-4, \infty)$

Aug 29-8:34 AM

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$[\quad]$ ← $1 \leq x \leq 4$
 (\quad) ← $-4 < x < 5$
 $(-8, \infty)$

Aug 30-2:12 PM

Graph the inequality, then write the solution in Interval Notation

$(-\infty, -3]$ $x \leq 0$

$[0, -\infty)$ $(-\infty, 0]$

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1 - Solve the inequality 2 - Graph the Solution
3 - Write solution in Interval Notation

1) $-4 < -8x + 7x$

Aug 30-7:48 AM

1 - Solve the inequality 2 - Graph the Solution
3 - Write solution in Interval Notation

7) $-102 < 6(1 + 3m)$

Aug 30-7:48 AM

SM1 Name _____ ID: 1

Solve and Graph inequalities Date _____ Period _____

Solve each inequality and graph its solution. Then write the solution in interval notation.

1) $-4 < -8x + 7x$ 2) $5n - 1 + 8n \leq -1$

3) $1 - r + 7r < -17$ 4) $-20 < -8p + 3p$

5) $x + 3 + 4 < 13$ 6) $6(1 + 3r) \leq -120$

7) $-102 < 6(1 + 3m)$ 8) $268 \leq 2 + 8(-1 - 6n)$

9) $3(-8 + 6d) - 7 > -85$ 10) $179 \geq 6(1 - 7a) + 5$

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11) $-153 > -3 - 6(1 + 3n)$ 12) $-123 \geq 3(1 - 6n)$

13) $2p - p < 4 + 3p$ 14) $2m - 1 > -8 + m$

15) $r + 3 > 9 - r$ 16) $-x + 4 < -3x - 2x$

17) $x - 2 + 3x \leq 8 + 6x$ 18) $-38 - 3a > -7(1 - 4a)$

19) $-5n + 22 < 7(1 - 2n) + 4n$ 20) $3(7 - 3n) \leq -6r + 24$

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SM1 Name _____ ID: 1
 Date _____ Period _____

Solve and Graph inequalities
 Solve each inequality and graph its solution. Then write the solution in interval notation.

1) $-4 < -5x + 7x$
 $x < 4$

2) $5n - 1 + 8n \leq -1$
 $n \leq 0$

3) $1 - r + 7r < -17$
 $r < -3$

4) $-20 < -8p + 3p$
 $p < 4$

5) $x + 3 + 4 < 13$
 $x < 6$

6) $6(1 + 3r) \leq -120$
 $r \leq -7$

7) $-102 < 6(1 + 3m)$
 $m > -6$

8) $268 \leq 2r + 8(-1 - 6r)$
 $r \leq -6$

9) $3(-8 + 6t) + 7 > -85$
 $t > -3$

10) $179 \geq 6(1 - 7a) + 5$
 $a \leq -4$

-1-

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11) $-153 > -3 - 6(1 + 3n)$
 $n > 8$

12) $-123 \geq 3(1 - 6n)$
 $n \geq 7$

13) $2p - p < 4 + 3p$
 $p > -2$

14) $2m - 1 > -8 + m$
 $m > -7$

15) $r + 3 > 9 - r$
 $r > 3$

16) $-x + 4 < -3x - 2x$
 $x < -1$

17) $x - 2 + 3x \leq 8 + 6x$
 $x \leq -5$

18) $-38 - 3b > -7(1 - 4b)$
 $b < -1$

19) $-5e + 22 < 7(1 - 2e) + 4e$
 $e < -3$

20) $3(7 - 3c) \leq -6c + 24$
 $c \geq -1$

-2-

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