

Algebra 1 Bellwork Tuesday, November 24, 2015

6th hr

Graph each compound inequality on a number line.

1. $C \geq 2$ and $C \leq 9$

2. $W \leq 1$ or $W > 99$



Solve each compound inequality and graph the solution.

3. $6 - 4x > 30$ or $\frac{4}{3}x - 5 > 31$

4. $3m - 1 \geq 29$ and $8 - \frac{m}{2} \geq -12$

Sol:

Graph:

Sol:

Graph:

5. $25 > 7 - 4c \geq 13$

Sol:

Graph:

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Answers

6th hr

Graph each compound inequality on a number line.

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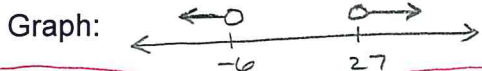


Solve each compound inequality and graph the solution.

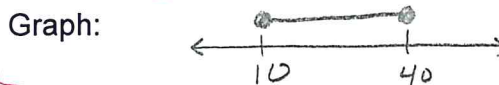
3. $6 - 4x > 30$ or $\frac{4}{3}x - 5 > 31$
 $-6 \quad -6$ or $+5 \quad +5$
 $\frac{-4x}{-4} > \frac{24}{-4}$ $\frac{3 \cdot \frac{4}{3}x}{4} > 36 \cdot \frac{3}{4}$
 $x < -6$ or $x > 27$

4. $3m - 1 \geq 29$ and $8 - \frac{m}{2} \geq -12$
 $+1 \quad +1$ and $-8 \quad -8$
 $\frac{3m}{3} \geq \frac{30}{3}$ $(-2)(-\frac{m}{2}) \geq (-20)(-2)$
 $m \geq 10$ and $m \leq 40$

Sol: $x < -6$ or $x > 27$



Sol: $m \geq 10$ and $m \leq 40 \rightarrow 10 \leq m \leq 40$



5. $25 > 7 - 4c \geq 13$
 $-7 \quad -7$ -7

$\frac{18}{-4} > \frac{-4c}{-4} > \frac{6}{-4} \rightarrow -4.5 < c < -1.5$

Sol: $-4.5 < c < -1.5 \rightarrow c > -4.5$ and $c < -1.5$

Graph:

