




Stick Quiz

Name
T5-1

Solve the following inequalities. Graph on a number line and verify.

1. $\frac{a}{4} > 16$ a > 64


2. $-9v \geq -108$
 $v \leq 12$


3. $\frac{5}{7}p > -20$ p > -28


4. $\frac{2c}{-3} \leq \frac{5}{9}$
 $c \geq \frac{-15}{18}$
 $c \geq \frac{-5}{6}$

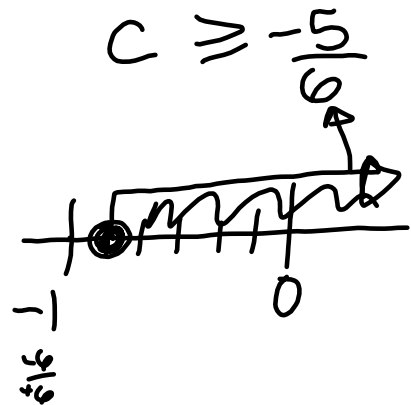


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T5-1.

~~(-3)~~ $\frac{2c}{-3} \leq \frac{5}{9}$ ~~(-3)~~

3 · 2c ≥ -15
 $\frac{6}{6}c \geq \frac{-15}{6}$



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5. *Write an* $\frac{1}{2}x < 60$ *Which inequality represents one half of Dan's savings is less than \$60.00?*

A. $\frac{1}{2} - s < 60$

B. $\frac{1}{2}s < 60$

C. $\frac{1}{2}(60) < s$

D. $\frac{1}{2}s > 60$

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? ? ? ? ?
? Questions ?
? ? ? ? ?
? On ?
? ? ? ? ?
? Homework ?
? ? ? ? ?

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$$t + 4 < 81$$

$$75 - 32 - 26 \leq m$$

$$75 \quad m < 32 + 26$$

$$75m < 58$$

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A blue banner with a gradient background. On the left, the word "LESSON" is written vertically in white. To its right, the numbers "5-3" are displayed in a large, light blue font. Further right, the text "Solving Multi-Step Inequalities" is written in a bold, white font.

LESSON 5-3 Solving Multi-Step Inequalities

I can... solve and verify multiple step inequalities and graph them on a number line.

Jan 10-11:53 AM

Whats the Rule?

When you \cdot or \div by A NEG

FLIP
Inequality!!

Jan 11-7:29 AM

1. **FAXES** Adriana has a budget of \$ ^{≤ 115} 115 for faxes. The fax service she uses charges \$25 to activate an account and \$0.08 per page to send faxes. How many pages can Adriana fax and stay within her budget?

p : # of pages faxed.

$$\begin{array}{r}
 25 + 0.08p \leq 115 \\
 -25 \quad \quad \quad -25 \\
 \hline
 0.08p \leq 90 \\
 \hline
 0.08 \quad \quad \quad 0.08 \\
 \hline
 p \leq 1125
 \end{array}$$

Adriana can fax at most 1125 pages.

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2. Rob has a budget of \$425 for senior pictures. The cost for a basic package and sitting fee is \$200. He wants to buy extra wallet-size pictures for his friends that cost \$4.50 each. How many wallet-size pictures can he order and stay within his budget?

m

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3. The difference of thirteen and eleven times a number is at least seventy-nine.

$$13 - 11x \geq 79$$

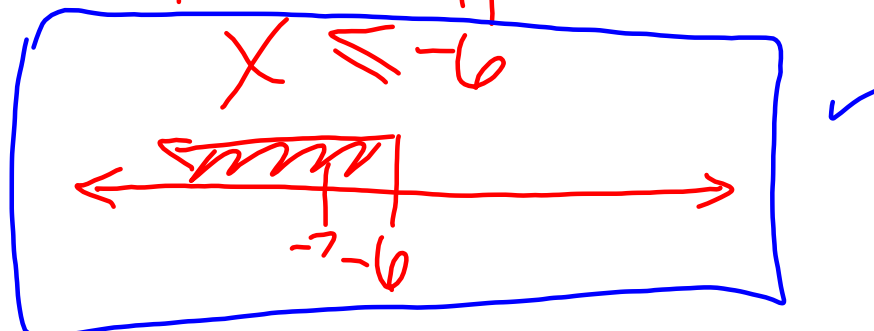
$$\begin{array}{r} -13 \\ \hline -11x \geq 66 \end{array}$$

$$\begin{array}{r} -11 \\ \hline x \leq -6 \end{array}$$

$$13 - 11(-7) \geq 79$$

$$13 + 77 \geq 79$$

$$90 \geq 79$$



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5. *Four times a number plus twelve is less than the number minus three*

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8. Solve $-7(s + 4) + 11s \geq 8s - 2(2s + 1)$.

$$\underline{-7s} - 28 + \underline{11s} \geq 8s - 4s - 2$$

$$-28 + 4s \geq 4s - 2$$

$$-4s \quad -4s$$

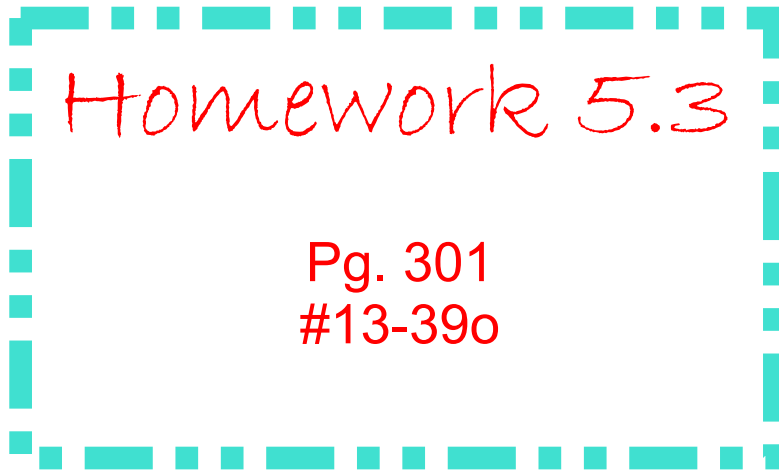
$$-28 \geq -2$$

No solution

or
 \emptyset

1. Distribute
2. Combine Like Terms
3. Add/sub Variables to same Side
4. Solve
5. graph
6. verify

Jan 11-7:33 AM



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 <http://www.quia.com/rr/438640.html>

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