Solving Multi-Step Inequalities endaup Wortm-UD

Homework: **Practice**

due FRIDAY (tutoring times)

- Test over ALL Unit 1 next Tuesday
- Six weeks ends next THURSDAY!

inequalities with multiple steps.

1. Round the following to the nearest hundredth.

167.4469346 167.45

2. Translate the following sentence into an algebraic equation. Then solve.

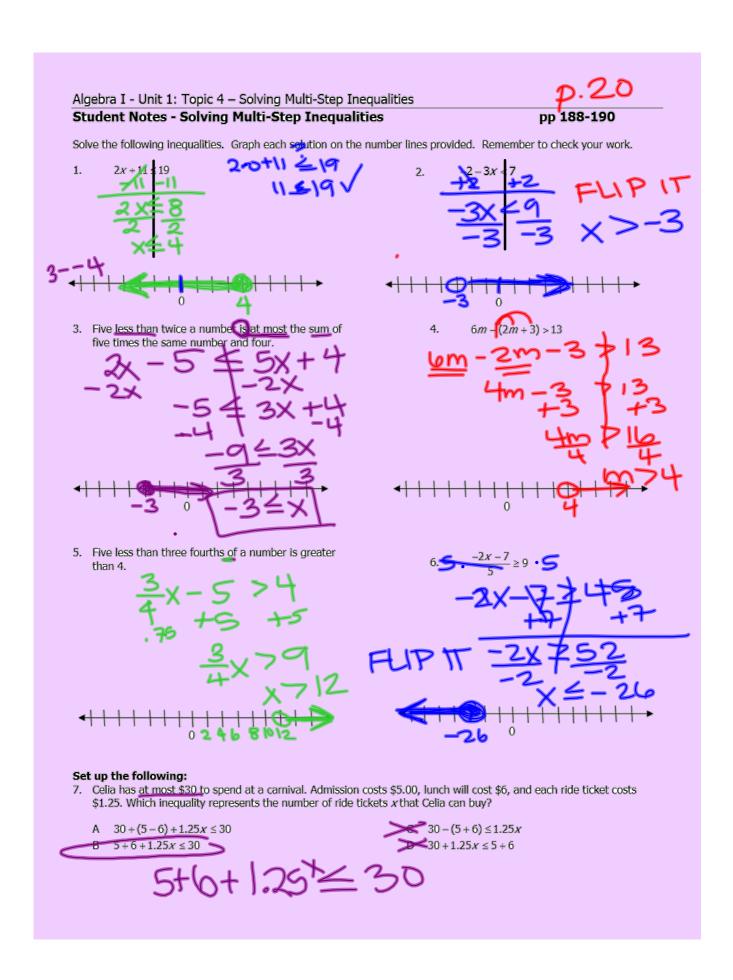
5 less than a number is the same as the opposite of twice the quantity of 3 minus the same number

Remaining Tutoring:

| | Tues | | |
|------|--------------|------|------|
| | 8:15 | | |
| Mon | Λ N Δ | Wed | Fri |
| 4:15 | AM | 4:15 | 8:15 |
| PM | Tues 4:15 | PM · | AM |
| | PM | | |

| Quiz Averages: | | |
|-------------------|--|--|
| 2nd - 71 | | |
| 3rd - 61 | | |
| 4th - 57 | | |
| 5th - 65 | | |
| 7th - 54 | | |

- Test 1 corrections due by FRIDAY 9AM
- Test over ALL Unit 1 is next Tuesday 10/1
- Six weeks ends Thursday 10/3



Exit Ticket

Diane wants to buy some new clothes for school. The shirts cost \$24 and the pants cost \$40. Which inequality best represents the number of shirts, s, and pants, p, that Diane can buy with no more than \$175?



Write your name and the answer to the following question on a sticky note.

A
$$24p + 40s < 175$$

B
$$24s + 40p > 175$$

C
$$24s + 40p \le 175$$

D
$$24s + 40p \ge 175$$



Algebra I - Unit 1: Topic 2 – Solving Multi-Step Inequalities

Practice - Solving Multi-Step Inequalities

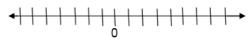
pp 188-190

Date_

Solve the following inequalities. Graph each answer on the number line provided. Remember to check your work.

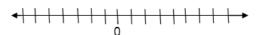
4 PICK 2





3. 10c + 11 < 5 + 8c $4n - 6 \ge 6n - 20$





Solve each inequality and check your answer.

PICK 2

7.
$$\frac{t+3}{2} < -8$$

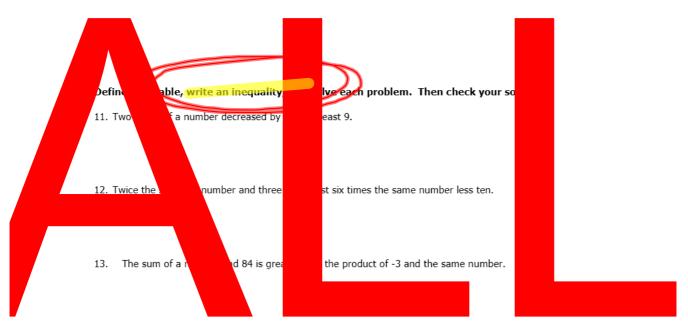
8.
$$\frac{5e}{6} + 7 > -3$$

Algebra I - Unit 1: Topic 2 - Solving Multi-Step Inequalities

Solve each inequality and check your answer.

9.
$$-3 - \frac{k}{5} \ge -10$$

10.
$$\frac{-3x-1}{5} < 4$$



14. Carol is buying asparagus and bananas at the grocery store. Asparagus costs \$3.00 per pound and bananas cost \$0.50 per pound. Which inequality best represents the number of pounds of asparagus, a, and bananas, b that Carol can purchase with at most \$20.00.

A
$$3a + 0.5b < 20$$

C
$$3a + 0.5b \le 20$$

B
$$3a + 0.5b > 20$$

D
$$3a + 0.5b \ge 20$$

15. Solve the following inequality: $-3(4-m) \ge 2(4m-14)$

16. The county water department charges a monthly administrative fee of \$10.40 plus \$0.0059 for each gallon of water used. Glen's family always pays more than \$35 each month for water. Which inequality best represents the number of gallons of water, g, Glen's family uses each month?

A
$$10.4g + 0.0059 > 35$$