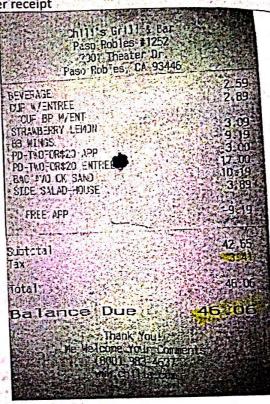
## Chili's Dinner receipt

How much do my friends and I owe? \$46.06 is THE Bire.

Amount
left has
to be at
least \$46.06
you could leave
you could noney
as much money
as you want.



## Budgeting Before Dinner: What if you were limited by what you could spend?

What if you and 3 friends only had \$10 each to spend so you had a budget of \$40 for dinner. What would the inequality look like now? Where would the max be?

TIP

You cannot spend more than what you have.

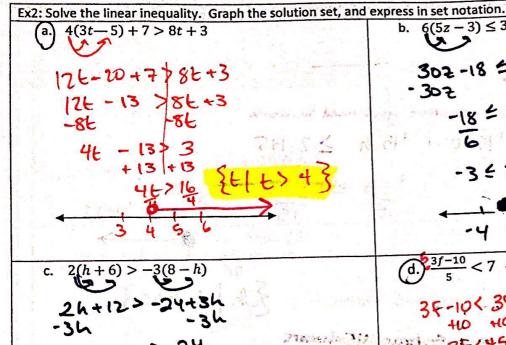
With your budget of \$40, you and your friends decide to leave a 20% tip. What would be the most that your bill including tax could be?  $18 + 0.28 \le 40$ 

B = \$33.33 Spano AS A GROWP

How much could EACH person's meal be, including tax?

4-4

B = \$ 8.33



 $6(5z-3) \leq 36z$ 

$$\underbrace{\text{d.}}_{5}^{3f-10} < 7 \cdot 5$$

Ex3: Define a variable, write an inequality, and solve the inequality. Graph the solution set, and express in set

a. Five minus six times a number is more than four times the number plus forty-five.

b. The sum of twice a number and 11 is less than or equal to the difference of five times a number and 4.

$$2x + 11 \le 5x - 4$$
 $-5x$ 
 $-5x$ 
 $-5x$ 
 $-5x$ 
 $-3x + 11 = -4$ 
 $-11$ 
 $-11$ 
 $-3x \le -16$ 
 $-3 = -3$ 
 $-3 = -3$ 

friends go out to dinner. You tell everyone to bring \$10 for the bill and you plan to bring \$20. You want to leave a \_\_\_\_ tip. What is the most your bill could be

including tax so you aren't left paying more than \$20?