TRANSLATING & SOLVING Inequalities

Solve

TWO-STEP INEQUALITY WORD PROBLEMS

	Directions: Define a variable, set up an inequality, then solve.				
8	8 Peter spent half the money on his gift card on coffee. He loaded another \$10 onto the gift card. How much was on the gift card to begin with if he now has at least \$40 on the card?			spent \$75 on food and ions that are \$10 each.	
	Inequality	Solution	Inequality	Solution	
10	A moving truck can carry no more than 1,480 pounds of cargo. Brian loaded 640 pounds into the truck already. He is loading boxes that weigh 70 pounds. How many boxes can he put into the truck?		11 The 7 th grade class is putting on a fundraising dance. They pay \$400 to rent a hall for the dance. They plan to sell tickets for \$15 each. How many tickets will they need to sell if they want to profit at least \$1,495?		
	Inequality	Solution	Inequality	Solution	
12	2 Nancy has \$240 in the bank. She wants to buy as many \$15 video games as possible. How many video games could she buy if she wanted to keep at least \$120 in the bank?		3 A taxi charges a \$2.33 Melissa has no more t her taxi ride. How ma		
	Inequality	Solution	Inequality	Solution	

Name:		Unit 3: Equations & I	nequalities
Date: Per:		Homework 11: Inequ	Jality Word Problems
	** This is a 2-pag	ge document! **	
Directions: For each pro	oblem, define a variable	and set up an inequality,	then solve.
 "The difference between a number and 7 is greater than -23." 		2. "Eight more than the and -5 is less than or	
Inequality	Solution	Inequality	Solution
 "Two-thirds of a number plus 17 is at least 29." 		4. "25 subtracted from the product of a number and 7 is less than -39."	
Inequality	Solution	Inequality	Solution
5. "Ten minus three time than 61."	es a number is no more	6. "The sum of a number and 9, divided by 4, is greater than or equal to -2."	
Inequality	Solution	Inequality	Solution
 7. "-5 increased by one-half of a number is a maximum of 3." 8. "14 less than twice a number is at most maximum of 3." 			
Inequality	Solution	Inequality	Solution

9. Sally is going furniture shopping using her credit card. If her credit card has a limit of \$2,000 and she is currently holding a balance of \$763, how much can she afford to spend on furniture?		10. Connor is taking a m which each question many questions mus score at least 90 poi	n is worth 4 points. How t he get correct to
Inequality	Solution	Inequality	Solution
11. Mrs. Hillard is purchasing candy hearts to distribute to the 28 students in her math class on Valentine's Day. If she would like each student to get a minimum of 15 candy hearts, how many will she need to purchase?		12. Ralph is on a diet. H pounds. How many to lose if he wishes to pounds?	pounds would he need
Inequality	Solution	Inequality	Solution
 13. Blake needed at least 225 votes to become president of his seventh-grade class. If three-fourths of the seventh-grade students voted for him and he won, how many seventh-grade students could there be? 		she works part time o	ed from her birthday. If at the grocery store how many hours must
Inequality	Solution	Inequality	Solution
15. Maggie is stocking up on chicken noodle soup for the winter season. If each can is \$1.25 and she has a \$2 coupon, how many cans can she buy if she can spend no more than \$30?		16. It costs the theater \$ performance. If ticked many tickets must th performance to prot	ets are \$8 each, how ley sell for their next it at least \$1,200?
Inequality	Solution	Inequality	Solution

TRANSLATING & SOLVING Inequalities

-	
Solve	
9x-9236 +9+9	
$\frac{9X^2}{9} \frac{45}{9} X^2 5$	
2. <u>4+x</u> 2-6.2	
-4 -4 -4 -4 -4 X<-16	
-5+3X ≤ 16 +5 +5	
3× ≤ 21 3 3 X ≤ 7	
8-6×268 -8-8	
$\frac{6X \ge 60}{6} \qquad X \le 10$	
8+4×≤6 -8 -8	
$4 \cdot \frac{1}{4} \times 4 - 2 \cdot 4$ $X \leq -8$	
$-3 + 4 \times \le -11$ +3 +3	
$\frac{4X \leq -8}{4} \qquad X \leq -2$	
$2 \cdot \frac{X+5}{2} \le 10 \cdot 2$	
$X+5 \le 20$ -5 -5 X \le 15	

Directions: Define a v	variable, set up an ineque	ality, then solve.	
on coffee. He loade gift card. How much	money on his gift card another \$10 onto the was on the gift card to has at least \$40 on the $\frac{1}{2} \times +10 \ge 40$ -10 -10 $2 \cdot \frac{1}{2} \times \ge 30 \cdot 2$ $X \ge 60$	 Megan wants to spend planning a party. She swants to buy decoration How many decoration I-e+ X = # decorations 	pent \$75 on food and ons that are \$10 each.
Inequality	Solution	Inequality	Solution
±×+10≥40	X≥\$60	10x+75±300	$X \leq 22$ decoration
that weigh 70 pound he put into the truck IC+X=#	y. He is loading boxes ds. How many boxes can ? $40 + 70\chi \leq 1480$ -640 -640 $70\chi \leq 840$ $70\chi \leq 12$	fundraising dance. They pay \$400 to rent a hall for the dance. They plan to sell tickets for \$15 each. How many tickets will they need to sell if they want to raise at least \$1,495? $1c+ \chi = #$ +400 + 400 $15\chi \ge 1895$ 15×2124.3	
Inequality	Solution	Inequality	Solution
640 + 70X 5 1480		15x - 400 Z 1495	XZ127 tickets
Nancy has \$240 in th			
buy as many \$15 vid How many video ga	the bank. She wants to teo games as possible. Immes could she buy if she teast \$120 in the bank? $240-15X \ge 120$ -240 $-240-15X \ge -120-15$ $-15X \le 8$	A taxi charges a \$2.35 Melissa has no more th her taxi ride. How man 1Ct X = Milts	an \$15 to spend on
buy as many \$15 vid How many video ga wanted to keep at le	teo games as possible. The possible is the buy if she teast \$120 in the bank? $240 - 15x \ge 120$ -240 -240 -240 $-15x \ge -120$ -15 -15	Melissa has no more th her taxi ride. How many	an \$15 to spend on miles can she go? $55 \times + 2.35 \le 15$ -2.35 - 2.35 $\frac{.55 \times \le 12.65}{.55}$

Name:

Unit 3: Equations & Inequalities

Date: _

____ Per: _____

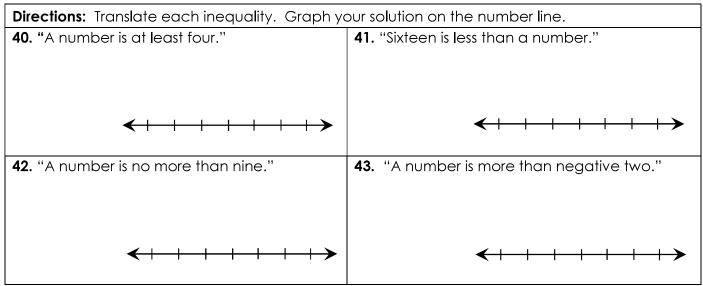
Homework 11: Inequality Word Problems

Directions: For each problem, define a variable and set up an inequality, then solve. 1. "The difference between a number and 7 is 2. "Eight more than the quotient of a number greater than -23." and -5 is less than or equal to 6." X-7 >-23 $\frac{x}{-5} + 8 \le 6$ -5 - 8 - 8 -5 $\frac{x}{-5} \le -2 \cdot -5$ X Z 10 +7 +7 x>-16 Inequality Solution Inequality Solution $\chi -7 > -2.3$ $\chi > -1.6$ 3. "Two-thirds of a number plus 17 is at least X +8 56 XZID 4. "25 subtracted from the product of a 29.' number and 7 is less than -39." Z= X+17 ≥ 29 -17 -17 7n-25 <-39 3 · 3 × 2 12 · 3 <u>In < -14</u> X Z 18 n 2-2 Inequality Solution Inequality Solution ₹x+17229 X218 7n-252-39 h2-2 6. "The sum of a number and 9, divided by 4, is 5. "Ten minus three times a number is no more than 61." greater than or equal to -2." 10-3X < 61 $4 \frac{x+9}{4} \geq -2.4$ -10 -10 -<u>3X < 51</u> X> -17 X+9 2-8 X Z-17 Inequality Solution $\frac{1}{2} \frac{1}{2} \frac{1}$ Solution 10-3X261 X>-17 XZ-17 7. "-5 increased by one-half of a number is a 8. "14 less than twice a number is at most 50." maximum of 3." 2X-14 50 -5+ ±× ≤3 +14 +14 +5 +5 2·→× ≤8.2 2X 4 64 X432 X 16 Inequality Solution Inequality Solution -5+±× 43 X 16 2X-14 4 50 X432

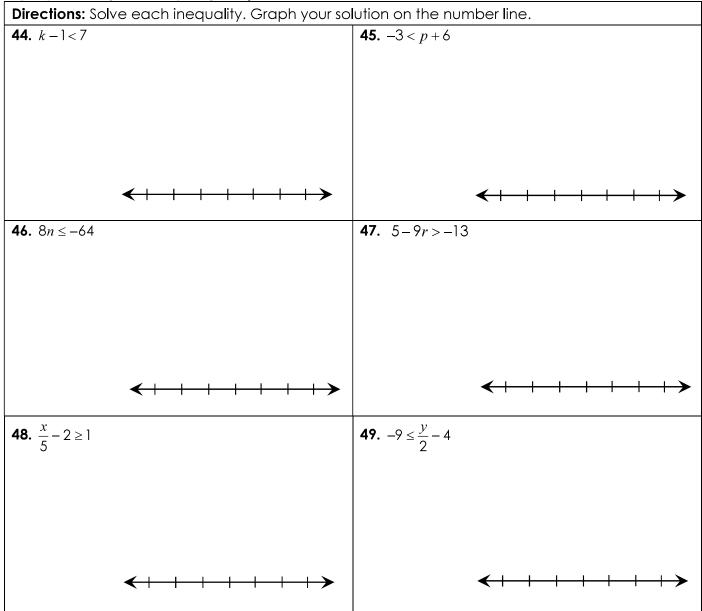
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InequalitySolutionInequalitySolution $763 + \chi \leq 2000$ $\chi \leq 41237$ $4\chi \geq q_{00}$ $\chi \geq 23$ quastions11. Mrs. Hillard is purchasing candy hearts to distribute to the 28 students in her math class on Valentine's Day. If she would like each student to get a minimum of 15 candy hearts, how many will she need to purchase?12. Ralph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?14. $\chi = \#$ $\chi = \frac{4}{28}$ $\chi \geq 15 \cdot 28$ $\chi \geq 420$ 12. Ralph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?14. $\chi = \#$ $\chi = \frac{4}{28}$ $\chi \geq 15 \cdot 28$ $\chi \geq 15 \cdot 28$ (Candies12. Ralph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?15. Maggie is stocking up on chicken noodle than \$30?14. Vera is saving up to buy a \$426 laptop. She arr 4 $\chi \geq 2205$ 16. Maggie is stocking up on chicken noodle than \$30?14. $\chi = 32300$ 17. $\chi \geq 225$ $\chi \geq 300$ students18. Maggie is stocking up on chicken noodle than \$30?15. $425 \cdot 6$ 19. Maggie is stocking up on chicken noodle than \$30?16. It costs the theater \$750 to put on each performance to profit at least \$1,200?19. $\chi \geq 25 \cdot 6$ $\chi \geq 25 \cdot 6$ $\chi \geq 25 \cdot 6$ 19. $\chi \geq 242 \cdot 4$ $\chi \geq 243 \cdot 4$ 19. $\chi \geq 243 - 4$ $\chi \geq 243 - 4$ 19. $\chi \geq 243 - 4$ $\chi \geq 243 - 4$ 19. $\chi \geq 225 - 6$ $\chi \geq 25 \cdot 6$ 10. It costs the theater \$750 to put on each perform	\$2,000 and she is cur balance of \$763, ho to spend on furniture IC+ X=\$ to	redit card has a limit of rrently holding a w much can she afford	 10. Connor is taking a r which each questions mut score at least 90 po IC+ X= # Questions 	n is worth 4 points. How st he get correct to
$763 + \chi \le 2000$ $\chi \le 41237$ $4\chi \ zq0$ $\chi \ zq3$ questions11. Mrs. Hillard is purchasing candy hearts to distribute to the 28 students in her math class on Valentine's Day. If she would like each student to get a minimum of 15 candy hearts, how many will she need to purchase?12. Raiph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?12. Raiph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?12. Raiph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?13. Blake needed at least 225 votes to become president of his seventh-grade class. If three-fourths of the seventh-grade students voted for him and he won, how many seventh-grade students could there be?14. Vera is saving up to buy a \$426 laptop. She already has \$75 saved from her birthday. If the works part time at the grocery store making \$9 per hour, how many hours must she work to purchase the laptop?14. $\chi = \pm$ $\frac{4}{3} \cdot \frac{3}{4} \times 2225 \cdot \frac{3}{3}$ 14. Vera is saving up to buy a \$426 laptop. She already has \$75 saved from her birthday. If 	Inequality	Solution	Inequality	Solution
11. Mix. Hillard is purchasing candy hearts to distribute to the 28 students in her math class on Valentine's Day. If she would like each student to get a minimum of 15 candy hearts, how many will she need to purchase?12. Ralph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?12. Ralph is on a diet. He currently weighs 248 pounds. How many pounds would he need to lose if he wishes to weigh at most 195 pounds?12. Ralph is on a diet. He currently weighs 248 pounds?12. Ralph is on a diet. He currently weighs 248 pounds?13. Black needed to get a minimum of 15 candy hearts to worked at least 225 votes to become president of his seventh-grade class. If three-fourths of the seventh-grade students voted for him and he won, how many seventh-grade students could there be?14. Vera is saving up to buy a \$426 laptop. She already has \$75 saved from her birthday. If the works part time at the gracery store making \$9 per hour, how many hours must she work to purchase the laptop?13. Black needed at least 225 votes to become president of his seventh-grade students voted for him and he won, how many seventh-grade students worked students could there be?14. Vera is saving up to buy a \$426 laptop. She already has \$75 saved from her birthday. If the work to purchase the laptop?14. Here fourths14. Vera is saving up to humon there season. If each can is \$1.25 and she has a \$2 coupon, how many cans can she buy if she can spend no more than \$30?16. It costs the theater \$750 to put on each performance to profit at least \$1.200?15. Maggle is stocking up on chicken noodle soup for the winter season. If each can is \$1.25 X = 4 20.16. It				U chur
$\chi_{22} \ge 15$ $\chi \ge 420$ (and i.es $248 - \chi \le 195$ $\chi \ge 53$ lbs.13. Blake needed at least 225 votes to become president of his seventh-grade class. If three-fourths of the seventh-grade students voted for him and he won, how many seventh-grade students could there be?14. Vera is saving up to buy a \$426 laptop. She already has \$75 saved from her birthday. If she works part time at the gracery store making \$9 per hour, how many hours must she work to purchase the laptop?Intervality $\frac{4}{3} \cdot \frac{3}{4} \times 2225 \cdot \frac{4}{3}$ Th graders $14 \cdot Vera is saving up to buy a $426 laptop. Shealready has $75 saved from her birthday. Ifshe works part time at the gracery storemaking $9 per hour, how many hours mustshe work to purchase the laptop?Inequality\frac{4}{3} \cdot \frac{3}{4} \times 2225 \cdot \frac{4}{3}Th graders16 \cdot Y = 44\chi \ge 300InequalitySolutionInequalitySolution\frac{3}{4} \times 2225\chi \ge 300\chi \ge 30016 \cdot It costs the theater $750 to put on eachperformance. If tickets are $8 each, howmany tickets must they sell for their nextperformance to profit at least $1,200?Ict \chi = # (\Delta nS1.25 \times -2 \le 301.25 \times \pm 221.25 \times \pm 221.25 \times \pm 321.25 \times \pm 321.25 \times \pm 25 \cdot bInequalitySolutionInequalitySolution$	distribute to the 28 s class on Valentine's each student to get candy hearts, how r purchase? ICH X= # 28 ·	tudents in her math Day. If she would like a minimum of 15 many will she need to $\frac{X}{28} \ge 15.28$	pounds. How many to lose if he wishes to pounds? ICH X=# Ibs. TD	pounds would he need o weigh at most 195 $248 - X \le 195$ -248 - 248 $-X \le -53$ -1 - 1
13. Blake needed at least 225 votes to become president of his seventh-grade class. If three-fourths of the seventh-grade students voted for him and he won, how many seventh-grade students could there be?14. Vera is saving up to buy a \$426 laptop. She already has \$75 saved from her birthday. If she works part time at the grocery store making \$9 per hour, how many hours must she work to purchase the laptop?If $X = #$ $\frac{4}{3} \cdot \frac{3}{4} \times 2225 \cdot \frac{4}{3}$ $\frac{4}{4} \times 2300$ If $X = 300 \times 10^{10}$ $X = 300 \times 10^{10}$ InequalitySolution $X = 39$ InequalitySolutionInequalitySolution $X = 39$ $X = 300 \times 10^{10}$ $X = 39$ $X = 300 \times 10^{10}$ 15. Maggie is stocking up on chicken noodle soup for the winter season. If each can is \$1.25 and she has a \$2 coupon, how many cans can she buy if she can spend no more than \$30?Is costs the theater \$750 to put on each performance. If tickets are \$8 each, how many tickets must they sell for their next performance to profit at least \$1,200?If $X = # (MNS)$ $\frac{1.25X - 2 \le 30}{\frac{1.25X}{1.25}} \times \frac{42.5}{\frac{1.25}{1.25}} \times \frac{42.5}{\frac{1.25}{3}} \times \frac{22.5}{\frac{1.25}{3}} \times \frac{22.5}{\frac{1.25}{3}} \times \frac{22.5}{\frac{1.25}{3}} \times \frac{22.43.75}{\frac{1.25}{3}}$ InequalitySolutionInequalitySolutionInequality	Inequality	Solution	Inequality	(197) 187 978 million 197
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InequalitySolutionInequalitySolution $\frac{3}{4} \times 2225$ $\chi 2300$ Students $15 \pm 9 \times 2426$ $\chi 239$ hours15. Maggie is stocking up on chicken noodle soup for the winter season. If each can is \$1.25 and she has a \$2 coupon, how many cans can she buy if she can spend no more than \$30?16. It costs the theater \$750 to put on each performance. If tickets are \$8 each, how many tickets must they sell for their next performance to profit at least \$1,200?It X = # CANS $1.25 \times -2 \leq 30$ $\pm 2 \pm 2$ $1.25 \times 4 = 32$ 1.25×1.25 It X = # $\chi \leq 25.6$ $8 \times -750 \times 21200$ $\Re \times 2 1950$ $\Re \times 2 1950$ $\Re \times 2 243.75$ InequalitySolutionInequalitySolution	president of his seven three-fourths of the voted for him and h seventh-grade stude ICH X = #	enth-grade class. If seventh-grade students e won, how many ents could there be? $\frac{4}{3} \cdot \frac{3}{4} \times 2225 \frac{4}{3}$	 14. Vera is saving up to already has \$75 sav she works part time making \$9 per hour, she work to purchas ICT X = # 	buy a \$426 laptop. She ed from her birthday. If at the grocery store how many hours must the laptop? $\frac{75 + 9 \times 2426}{-75}$ $\frac{9 \times 2351}{9}$
15. Maggie is stocking up on chicken noodle soup for the winter season. If each can is \$1.25 and she has a \$2 coupon, how many cans can she buy if she can spend no more than \$30?16. It costs the theater \$750 to put on each performance. If tickets are \$8 each, how many tickets must they sell for their next performance to profit at least \$1,200?Ict X = # CANS $\frac{125X - 2 \leq 30}{\frac{125X - 2 \leq 30}{1.25}}$ Ict X = # $8X - 750 \geq 12.00$ Ict X = # CANS $\frac{125X - 2 \leq 30}{\frac{1.25X - 2 \leq 30}{1.25}}$ Ict X = # $8X - 750 \geq 12.00$ Ict X = # CANS $\frac{125X \leq 32}{1.25}$ $\frac{1.25X \leq 32}{1.25}$ $\frac{1.25X \leq 32}{1.25}$ InequalitySolutionInequalitySolution		Solution	Inequality	
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X ≤ 25.6X Z 243.75InequalitySolutionInequalitySolution	15. Maggie is stocking u soup for the winter s \$1.25 and she has a cans can she buy if than \$30?	Aaggie is stocking up on chicken noodle oup for the winter season. If each can is 1.25 and she has a \$2 coupon, how many ans can she buy if she can spend no more han \$30? $X = # CANS$ 16. It costs the theater \$750 to put on each performance. If tickets are \$8 each, how many tickets must they sell for their next performance to profit at least \$1,200? Het X = #1.25 X - Z ≤ 30 $\frac{1.25 X - Z \leq 30}{\frac{1.25 X + Z}{1.25}}$ 16. It costs the theater \$750 to put on each performance. If tickets are \$8 each, how many tickets must they sell for their next 		6750 to put on each ets are \$8 each, how ney sell for their next fit at least \$1,200? 8X - 750 Z 1200 1750 +750 8X Z 1950
Inequality Solution Inequality Solution	X 5 25.6			0
		X = 23.4		X Z 743.75
The second secon	Inequality		Inequality	

Topic 6: Writing and Graphing Inequalities



Topic 7: Solving and Graphing inequalities

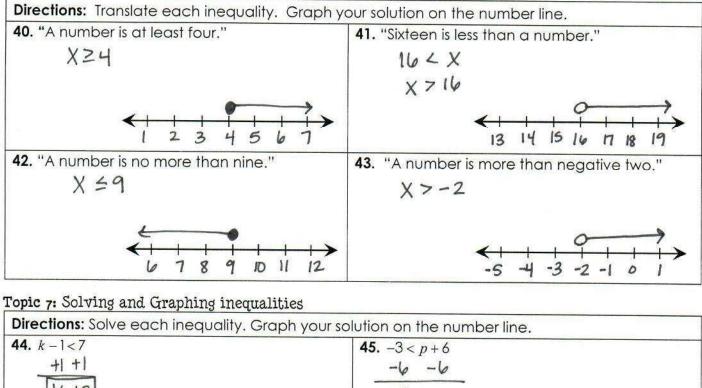


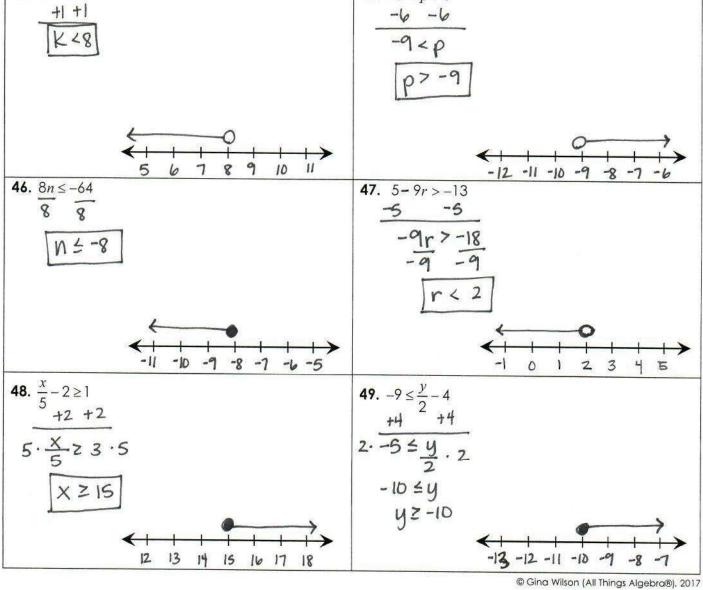
Directions: Solve each inequality. Then, check each number that is a solution.		
50. $4v + 3 \le -21$	51. $-5x - 4 > -44$ 51. $-5x - 4 > -44$ 51. $-5x - 4 > -44$ 51. 7 51.	
Directions: Translate each inequality. Graph yo	ur solution on the number line.	
52. "Three more than twice a number is no more than eleven."	53. "The sum of two and a number, divided by three is greater than negative ten."	
$\checkmark + + + + + + \rightarrow$	$\checkmark + + + + + + \rightarrow$	

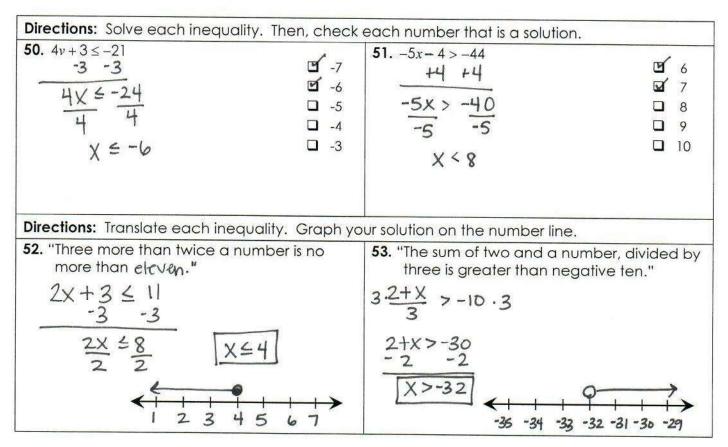
Topic 8: Inequality Word Problems

Directions: Define a vari	able and set up an ineq	uality, then solve.	
Directions: Define a variable and set up an ineq 54. A shipping container can hold a maximum of 3,000 pounds of cargo. How many 150- pound boxes can go inside the container?		-	is taking lessons and nore than \$250, how
Inequality	Solution	Inequality	Solution
56. Greg is saving up for a new cell phone that will cost him \$550. He already has \$300 saved. If would like to buy the phone in four weeks, how much must he save each week if he plans to have at least \$550?		\$524.75 before writir	o avoid fees. She had ng a check for \$65.99. e need to deposit into
Inequality	Solution	Inequality	Solution

Topic 6: Writing and Graphing Inequalities







Topic 8: Inequality Word Problems

Directions: Define a var	iable and set up an inec	uality, then solve.	
Directions: Define a variable and set up an ineq 54. A shipping container can hold a maximum of 3,000 pounds of cargo. How many 150- pound boxes can go inside the container? Ict $\chi = # boxcs$ $\frac{150 \times 4}{150} = \frac{3000}{150}$ $\chi = 20$		55. It costs \$40 to register for Karate, then \$ per lesson. If Rachel is taking lessons and wants to spend no more than \$250, how many lessons can she take?	
Inequality	Solution	Inequality	Solution
150 X = 3000	X = 20 boxes	40+15X = 250	X=14 lessons
weeks, how much m if he plans to have a	e already has \$300 o buy the phone in four ust he save each week	 57. Liz needs to keep no kss than\$500 in her checking account to avoid fees. She had \$524.75 before writing a check for \$65.99. How much does she need to deposit into her account to avoid a fee? 	
let X=\$ per Weck	-300 -300	let x = \$ to deposit	458.76+X 2500 -458.76 -458.76
	<u>4X</u> ≥ <u>250</u> 4 X≥ <u>4</u> 2.5		X = 41.24
Inequality	Solution	Inequality	Solution
300+4X255D	XZ\$ 42.50	458.76+x 2500	XZ\$41.24