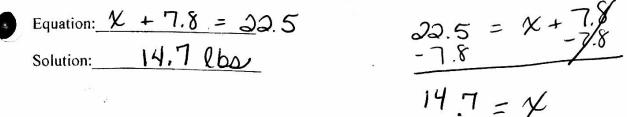
		MGSE Unit 4 Stu	dy Guide: One S	tep Equations and	I Inequalities	50° 6 8			
Name:	_ Bu	<del></del>	Date:		Period:				
	The total amount o	of money the math $m$ , the members o	club needs to atten f the math club nee	d a math tourname ed to raise in order	nt is \$400. The inequality to be able to attend the ma	shows the			
Part B The mei		club want to raise	Explain how you know	bove will on more total amount need	e correct.  I awe a total  Late a decided to attend the math tour the members need? Show  100, Do the				
2.	Which could not b	e the missing num	ber in the number	sentence 8 •<	56				
٠.	a. 4	b. 6		c. 5	d. 7				
3.	Which of the following is NOT a solution to the inequality $15 \ge x$ ?								
	a. 13	(b. 1	6	c. 15	d. 0				
MGSE 4.	The number of dia	amonds, d, on a ne of diamonds on a		an the number of $C - 8 =$	gold charms, c. Write an e	equation that			
,	If there are 25 go	ld charms on a nec	klace, how many ( (25) - 8		ne necklace?				

- Which problem situation matches the equation 10x = 180?
  - Jamie sold 180 newspaper subscriptions each month for 10 months. What is x, the total number of newspaper subscriptions that Jamie sold in 1 year?
  - b. Brenna cycled a total of 180 miles this month. She cycled 10 miles each day. What is x, the number of days Brenna cycled this month?
    - Mary charges a flat fee of \$100 plus \$10.00 per hour for labor to paint houses. What is x, the number hours Mary worked if she charged \$180.00 for labor?
    - d. Sara bought 10 ride tickets and x game tickets. How many game tickets did she buy if she bought 180 tickets in all?
- 6. Together a puppy and kitten weigh a total of 22.5 pounds. The puppy weighs 7.8 pounds. Write an equation represent the situation, and solve for the weight of the kitten.



## MGSE6.EE.7

- What is the value of j in the following equation? j - 126 = 195+126 +126 1=321
- 8. What is the value of x in the following equation?

$$\frac{18x}{18} = \frac{144}{18}$$

$$x = 8$$

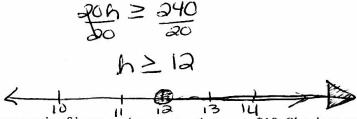
9. What is the value of k in the following equation?

5 
$$\frac{4}{7} = \frac{36}{7} = 100$$

## MGSE6.EE.8

10. Mrs. Perry hires a landscaper that charges \$20 per hour. The landscaper says that the total charge for the work Mrs. Perry wants done will be at least \$240.

Write and inequality to show h, the number of hours it may take for the landscaper to do the work form Mrs. Perry. Solve the inequality and show your work below.



11. Angelina wants to buy a pair of jeans and a sweater that costs \$18. She does not want to spend more than \$50 for the jeans and sweater. Which inequality best represents j, the amount that Angelina can spend on the jeans.

a.  $j \leq 32$ 

 $b. j \ge 32$ 

d. j > 32

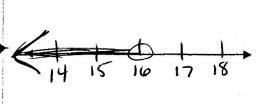
j + 18 2 50 j = 18 j = 32

12. Nolan read for 10 hours last week. McKinley read more hours than Nolan. Write an inequality showing the number of hours, that McKinley read.

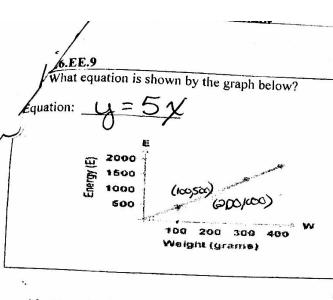
m > 10

Solve and graph the solution to each inequality. Show all work.

13. 
$$\frac{8n}{8}$$
  $\frac{24}{8}$   $n > 3$ 







17. Which rule or expression shows how to find the y values in the table?

18. The table below shows the total number of cans donated to food for sharing each day in December.

Food For Sharing Donations

<445 Hir-

1 ood For Sharing Donations						
Amount of Cans donated						
6						
18						
42						
54						

a) If n represents the number of days, what is the rule for this table?

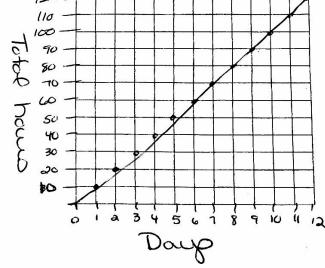
b) What is the independent variable in the situation?

number of days

MGSE6.RP.3a

19. Antonio's Pizza Co. is open 10 hours per day. Fill in the table of values and plot the values on a graph to show how many total hours, y, they are open after x days. Remember to label the x- and y-axis.

x (days)	0	3 .	6	8	12
y (total hours)	0	30	60	80	120



- 20. A switch on a garden sprinkler controls the distance the water sprays.
  - When the switch is set at the number 8, the water reaches a distance of 2 feet.
  - When the switch is set at the number 12, the water reaches a distance of 3 feet.
- This rate of change remains the same as the switch is set to different numbers. At what number should the switch be set to in order to make the water reach a distance of 9 feet?

