Solving and Graphing One-Step Inequalities

Explore

Name	KEY		
Date		Period_	

To solve a linear inequality:

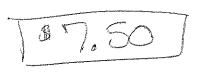
- Solve the inequality the same way you would an <u>equation</u>.
- Remember when motherlyngor dividing by a negative #

to reverse the inequality symbol.

- Graph the inequality on a number line.
- 1. At an online bookstore, Mary bought 6 copies of the same book for herself and her friends. She received free shipping because the total was over \$45.

Write and solve an inequality that could be used to find the minimum cost of each book.

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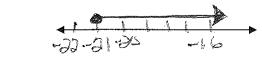


Solve and graph each inequality.

 $433\frac{x}{3} \leq 7(-3)$



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5. Which inequality symbols needed to be switched in problems 1 - 5? Why?

#3 because it was multiplying

Give two examples of inequalities where the symbol needs to be switched.

0 -86732



Choose the inequality or equation that best matches the situation.

.07 .

Mr. Samuels works for a real estate office that pays its agents 7% of their sales. How much real estate will Mr. Samuels have to sell to earn a minimum of \$4,2007



A.
$$0.07 + s < 4200$$

B.
$$0.07s \le 4200$$

C.
$$\frac{s}{0.07}n = 4200$$

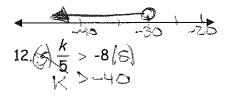
B.
$$0.07s \le 4200$$
 C. $\frac{s}{0.07}n = 4200$ D $0.07s \ge 4200$

8. Stacy is making punch for a party. She has 225 oz of punch and is serving it in 5 oz cups. Stacy wrote the inequality $225 \ge 5n$ to find the <u>maximum</u> number of cups of punch she can serve. Solve Stacy's inequality. 2057 \$h

Find the student that solved the inequality correctly. Identify the errors of the other two. 9.

Error Xavier	Yolanda	Zorie
4(-)x > 10	4 - x > 10	4 - x > 10
(-4 -4	CON -4 -4	-4 -4 STON
x > 6	$\underline{-x} > \underline{6}$	$\frac{-}{x} > \underline{6}$
	-1 -1	-1 -1 cer by
	x < -6	x(3)-6 54**

Solve and graph each inequality.









EP: pg. 177 #7-12 and pg. 184 #57-62,64