Attention:

your # 5 is shown on the

Jost page



Name:	Key		Period: M / Date:				
				Study Gi	uide due Mon, 12/1		
Study Guide	e Chapter 7	Math 7		Test on T	uide due Mon,12/1 Tues,12/13.		
	e are 76 students in the the number of boys.	Breezewood Middle S	chool chorus. The nu				
a.	Draw a picture that their values.	models the situation. L	abel the unknown pa	rts with variables an	d the known parts with		
(11131)	Boys: b	T131 7 76	Students				
	Girls: bb	[13]					
b.	Use your picture to your calculations.	determine the number of	of boys and the numb	per of girls that belon	g to the chorus. Show		
(fourth)	girls = 26 2(2	1) +13 —	$\frac{3b+13}{-13} = \frac{7b}{13}$	there and	55 girls.		
c.	Write an expression	2 ± 13 55) I for the number of boys	$\begin{vmatrix} 3 \\ b \end{vmatrix} = \begin{vmatrix} 2 \\ 1 \end{vmatrix}$ s and an expression f				
(Second)	Boys: Boys:	nber of boys.					
	Girls: 2b+13	3	Λ,	acceptable	preferred		
Mird d.	Write an equation to	o represent this situation	- f \ - \ .	-13=76	36+13=76		
2. Use the	ne pan balance to ansv	ver each question.					
\			1/				
a.	What will balance I	rectangle? Explain you I (SWotVacted)	or strategy. I rec 5 squares from	tangle = 4 sq meach side	uares Then, I		
b.	Use symbols to rew	remaining # of	Signares by the hown on the balance	the $++$ of rections. Let $==x$ and \Box	ury . = 1 unit. Then,		
	determine what bala	ances x . (Solve for x)			72		
	$\frac{2x+5}{-5}$	-5					

3. Write a sentence to describe how to apply inverse operations to sovle the equation. Then solve and verify your solution.

$8x-5 = \begin{vmatrix} -37 \\ +5 \end{vmatrix}$	add 5,	then	divide 8.
$\frac{8x}{8} = -\frac{32}{8}$			
X=-4			
8x-5 = -37			
8(-4)-5 = -37			
-32 +5 = 37			•
-37 = -37	/		

Choose 1 method;

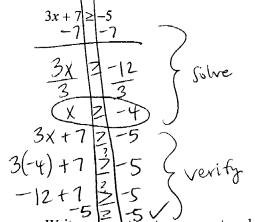
Distribute tirst - Mother

4. Solve and verify 8(3x-4)=16 8(3x-4)=16 8(3x-4)=16 8(3x-4)=16 24x-32 +32 24x 3x-4 3x-4

A The activa #5 is on the next page. A

5. Solve and verify. Then, graph the solution on a number line.

(closed circle!) (arrow to the right.)



Write an equation to represent each situation.

Define your variables, solve the equation, and verify your solution.

6. Ms. Moderelli charges her piano students \$40 per lesson plus a semester recital fee of \$55.

How many lessons did Jerry take if he paid a total of \$695 for lessons this semester?

40 per leason plus 55 total

Owrite 40 l + 58 = 695
-55

Solve 40 l + 55 = 695

40 l + 55 = 695

40 luly + 55 = 695

640 + 55 = 695

640 + 55 = 695

640 + 55 = 695

640 + 55 = 695

640 + 55 = 695

640 + 55 = 695

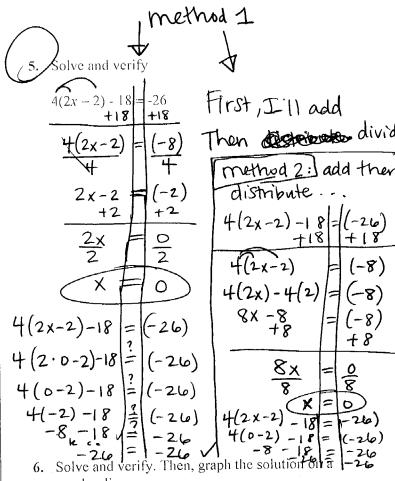
(2) define: Let I represent the mumber of lessons ferry took, ferry took 16 lesson this servester.

Write a sentence to describe how to apply inverse operations to sovle the equation. Then solve and verify your solution.

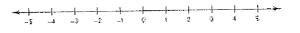
$$8x - 5 = -37$$

4. Solve and verify

$$8(3x - 4) = 16$$



number line.



$$-3x + 7 \ge -5$$