1. Write the equation of the line that passes through (-5, 7) and (3, 23)

$$m = \frac{23-7}{3+5} = \frac{10}{8} = 2$$

$$y - y_1 = m(x - x_1)$$

$$y - 23 = 2(x - 3)$$

$$y - 23 = 2x - (9)$$

$$423 + 23$$

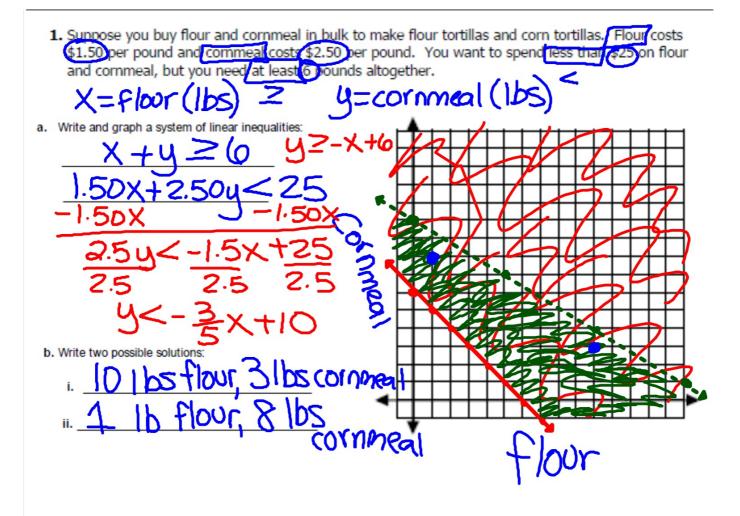
$$y = 2x + 17$$

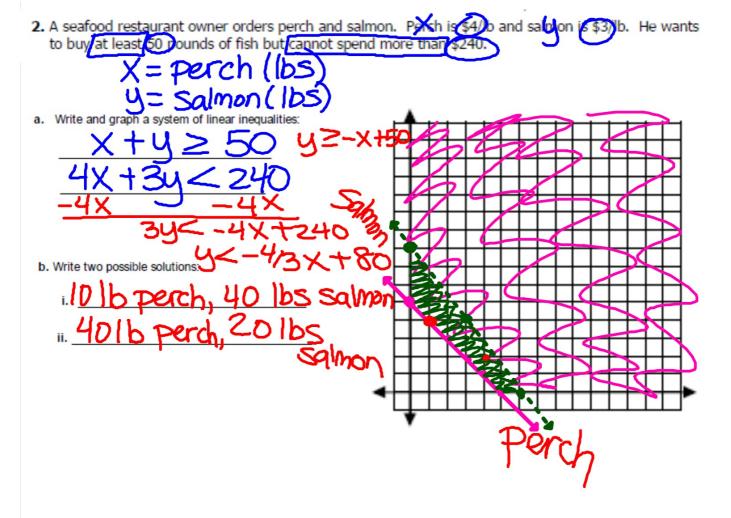
2. Solve for k:

$$+48 - 8k = 24$$
 $+49$ 
 $-8k = 49 + 24$ 
 $-8k = 49 + 24$ 

3. Solve:

$$y=2x$$
  $y=2(3)$   
 $5x-6y=9$   $y=66$   
 $5x-2x=9$   $(3,6)$   
 $3x=9$   
 $3x=9$   
 $x=3$ 





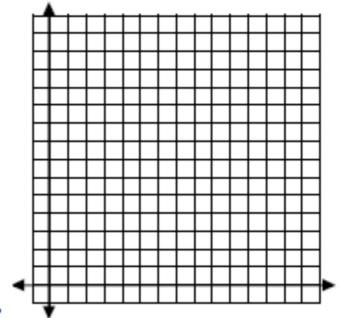
oper cost	"We Sell CDs" website plans rating budget will allow them \$30 to appear in the weekda at least 20 ads.	to spend at most \$3	30(	00 (	on t	this	adv	/ert	isin	g a	dv	ent	ure	. A	n a	d w	/ill
a. Write	e and graph a system of linear inequ	alities:	4	Ι,	_	_	_	_	Н	_	<del></del>	_	_	_	_	Н	ı
			Н	$\vdash$	$\dashv$	+	+	$\vdash$	Н	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	
		-	Н	Н	$\dashv$	+	+	₩	Н	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	
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		N .	Ц	Щ	_	4	-	╄	Щ	_	Н	4	4	+	+	Ш	
			Ц	Щ	_	4	-	╄	Щ	_	Ц	4	4	4	4	Ш	
			Ц	Ц	_	4	$\bot$	╙	Ц	_	Ц	4	4	_	_	Ш	
b 186-4-	Accesses the selections.			П	П	Т	Т	Г	П		П	Т	Т	Т	Т	П	
b. write	two possible solutions:		П	П	$\neg$	o	$\top$	Т	П	$\neg$	$\neg$	╅	す	$\top$	$\top$	П	
			П	П	┪	$\dashv$	$\top$	$\vdash$	Н	$\neg$	$\dashv$	$\dashv$	$\top$	$\top$	$\top$	Н	
ь.			П	$\Box$	$\dashv$	$\dashv$	$\top$	$\vdash$	Н	$\neg$	$\dashv$	$\dashv$	$\dashv$	$\top$	$\top$	Н	
			Н	$\vdash$	$\dashv$	$\dashv$	+	$\vdash$	Н	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	
ii			Н	$\vdash$	$\dashv$	$\dashv$	+	$\vdash$	Н	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	
			Н	$\vdash$	$\dashv$	+	+	$\vdash$	Н	$\dashv$	$\dashv$	+	+	+	+	Н	
			Н	$\vdash$	$\dashv$	+	+	₩	Н	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	
		•	Н	Н	$\dashv$	+	+	⊢	Н	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	-
			Ц	Ш	$\perp$	$\perp$		$\perp$	Ш			$\perp$		$\perp$	$\perp$	Ш	
			٦	7													

N	Mary knits scarves and sweaters to sell. Scarves ta Mary would like to spend no more than 40 hours poweek.															
a. V	Write and graph a system of linear inequalities:	ď		П	$\exists$	_			П	П	⇉	コ	$\Box$	⇉	⇉	⊐
		E	Н	$\exists$	$\exists$	$\pm$	$\perp$				$\pm$	$\exists$	$\exists$	$\pm$	$\pm$	$\exists$
		F	$\vdash$	$\dashv$	$\dashv$	+	$\vdash$			H	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$
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b. W	Vrite two possible solutions:	F			$\dashv$	#	İ			$\Box$	$\Rightarrow$	$\exists$	$\exists$	$\dashv$	#	╛
	i	F	H		$\exists$	$\pm$					$\exists$	Ⅎ	$\exists$	$\exists$	$\pm$	Ⅎ
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. '		F	$\vdash$	$\Box$	$\dashv$	$\mp$	F			$\Box$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\exists$
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		٦	,	ш			_	Ш	Ш		_	_	_	_	_	_

<ol> <li>A clothing store has a going-out-of business sale. The \$3.99. You can spend as much as \$60 and want to</li> </ol>										d s	hirt	s f	or
a. Write and graph a system of linear inequalities:	ď		П	+	+	Н	7	+	+	П	Н	$\dashv$	$\exists$
				+	$\pm$		$\pm$	+	$\pm$	H			$\exists$
				$\pm$	+		$\frac{1}{4}$	$\pm$	$\perp$				$\exists$
b. Write two possible solutions:				+	+		$\frac{1}{2}$	+	$\pm$	H	Н		$\exists$
i				+	+		$\frac{1}{4}$	+	$\perp$			$\exists$	$\exists$
ii				$\pm$	$\pm$		$\pm$	$\pm$	$\pm$				$\exists$
•	Е		$\dashv$	+	$\pm$		$\frac{1}{2}$	$\pm$	$\pm$	$\vdash$	H	$\exists$	-
	•	,											

6.	You'd like to see how many baseball and soccer games you can attend this spring.	Travel time for
	baseball games is 2 hours and soccer games is 1 hour. You would like to spend no	more than 15
	hours traveling to the games. In total, you would like to attend at least 8 games.	

a.	Write and graph a system of linear inequalities:
	-
b.	Write two possible solutions:
	i
	ii
C	Suppose we decide on attending 4 baseball games, what is the range of soccer games you can attend?



- d. Suppose we decide on attending 9 soccer games, what is the range of baseball games you can attend?
- e. Is it possible to attend 6 baseball games and 4 soccer games?