

More	Practice:		
What	Read problem in words as		
	a Question, then list the		
operations	given operations here, then provide their inverses		
•	below. use words.		
are			1
given?	× –		
	4x - 3 = 9		
What are	÷ +		
the			
invoraa			
mverse	-x + 5 = 1		
operations			
Can			
distribute	3(x + 2) = 15		
firet 0			
	100000000000000000000000000000000000000		
	2 (2x - 1) = 10		

Identify opps. Given, then inverse	$4 + \frac{2}{5}r = -2$	STEPS	CHECK:	
	inverse:			
Identify opps. Given, then inverse	•11_(a+ 12) =	–4 CHECK:	(Identify opps. on 2. $\frac{3}{8}n + 1 = -25$	side margin) CHECK:

Aliyah had some candy to give to her four children. She first took ten pieces for herself and then evenly divided the rest among her children. Each child received two pieces. With how many pieces did she start?	ii. Solve:	iii. CHECK:		
i. ANNOTATE KEY WORDS,				
THEN WRITE THE				
EQUATION:				
Summary: What is solving? What does it	mean?			
-				
What does isolate mean? How do you isolate a variable?				

How do you check solutions?

Nur	nber Talk	-(-)		RE: *Friday
6- 4	6x- 4x	$6x^2 - 4x^2$	6x²- 4x	and re-test.
6 - 2	6x - 2x	$6x^2 - 2x^2$	6x - 2x ²	
6 - 0	6x - (-2x)	$6x^{2}$ (-2x ²)	$6x^{2}$ (-2x)	1
6 - (-2)	6x - (-4x)	$6x^2 (4x^2)$	$O_X = (-2X)$)
6 - (-4)		0x - (-4x)	0X - (-4X	
6 (8)	$O_{X} - (-O_{X})$	6X ⁻ - (-6X ⁻)	6X - (-6X ²)
0 - (-0)	6x - (-8x)	6x ⁻ - (-8x ²)	6x - (-8x²)	

Aliyah had some candy to give to her four children. She first took ten pieces for herself and then evenly divided the rest among her children. Each child received two pieces. With how many pieces did she start? i. ANNOTATE KEY WORDS, THEN WRITE THE EQUATION: III. SOLVE: III. CHECK: III. CHECK:



INDEPENDENT PRACTICE. SOLVE AND CHECK. USE SEPARATE PAPER.

1. 5r + 2 = 172. 25 = -2w - 34. -3f + 19 = 45. -22 = -x - 127. $\frac{y}{3} - 8 = 1$ 8. $\frac{2}{3}h - \frac{1}{4} = \frac{1}{3}$ 10. 12.5 = 2g - 3.511. 6.3 = 2x - 4.513. $\frac{7}{9} = 2n + \frac{1}{9}$ 14. -9y - 4.2 = 13.816. 0.6x + 1.5 = 4

PLIX (Play Learn Interact eXplore)

INDEPENDENT PRACTICE. SOLVE AND CHECK. USE SEPARATE PAPER.

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PLIX (Play Learn Interact eXplore)

Identify operations, Inverses. "Sentence"	Solve (isolate variable).	Check your answer.
Model Example 1: Division and Subtraction given $17. \frac{V}{8} - 10 = 54$ INVERSE: Mult., Add. "A number divided by 8 then	$\frac{\frac{V}{8} - \frac{10}{5} = 54}{\frac{+0}{8} + \frac{10}{5}}$ $\frac{\frac{V}{8}}{\frac{10}{8}} = 64$	$\frac{512}{8} - 10 = 54$ 64 - 10 = 54
minus 10 is 54."	⁸	54 <u>=</u> 54 V
1. 5r + 2 = 17		



Identify operations, Inverses.	Solve (isolate variable).	Check your answer.
"Sentence"		
Model Example 2: Division, Mult. and Subtraction 18. $\frac{2}{5}h - \frac{1}{3} = \frac{1}{5}$	=h-+=-	금h−0.14=0.5
INVERSE: Mult.,Divide, Add.	5-0.14-0.5	$\frac{2}{5}(1.6) - 0.14 = 0.5$
"A number times 2 and divided by 5, then minus one-seventh	==h-e.14=0.5 + 0.14 + 0.14	<u>3.2</u> - 0.14 <i>=</i> 0.5 5
is One half."	−	0.64 - 0.14 = 0.5
	5, 21 - 0 64 5	0.5 = 0.5
		\checkmark
	h = 1.6	



Identify operations, Inverses.	Solve (isolate variable).	Check your answer.
"Sentence"		
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Identify operations, Inverses.	Solve (isolate variable).	Check your answer.
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Numbe	er Talk -(-)	<mark>+</mark> →
8-2	-8 - 2	-6x - (4x)	$-6x^2 - 3x^2$
8 - 1	-8 - 1	5x - (- x)	$5x^2 - 4x^2$ a
8 - 0	-8 - 0	-8x - (2x)	$-7x^2$ - (-2x ²)
8 - (-1)	- 8 - (-1)	9x - (-4x)	$\frac{1}{8x^2 - (-4x^2)}b$
8 - (-2)	-8 - (-2)	-17x - (-4x)	$8x^2(6x^2)$
8 - (- 3)	-8 - (- 3)		-0x - (0x)
8 - (- 4)	-8 - (- 4)	16x - (8x)	-8x ² - 8x ²
9 - (- 5)	-10 - (- 5)	-12x - (-8x)	$-40x^{2} (-40x^{2})$

Identify operations, Inv "Sentence"	verses.	Solve (isolate variat	ole).	Check your answer.
	INE 1. $5r + 2$ 4. $-3f - 3f - 7$ 7. $\frac{y}{3} - 8 = 10$ 10. 12.5 13. $\frac{7}{9} = 16$ 16. $0.6x$	DEPENDENT PRACTICE. S 2 = 17 + 19 = 4 = 1 i = 2g - 3.5 $2n + \frac{1}{9}$ + 1.5 = 4	OLVE AN 2. 25 52 8. $\frac{2}{3}h$ 11. 6. 14	ND CHECK. USE $= -2w - 3$ $= -x - 12$ $-\frac{1}{4} = \frac{1}{3}$ $3 = 2x - 4.5$ $9y - 4.2 = 13.8$
)	[After 20 mins. will c Problems, to see	heck or ∋ who is	Re-Take opportunity ready :]

RE-Take Quiz Practice. All problems must be completed for retake of last Quiz.

12.) $(19x^2 + 12x + 12) + (7x^2 + 10x + 13)$	13.) $(4x^2 - 6x + 7) + (-19x^2 - 15x - 18)$
14.) $(20x^2 + 15x + 13) + (-19x^2 + 17x + 5)$	15.) $(9x^6 - 4x^5) + (10x^5 - 15x^4 + 14)$
18.) (6x + 14) - (9x + 5)	20.) $(19x^2 + 9x + 16) - (5x^2 + 12x + 7)$
21.) (17x ² + 7x - 14) - (-6x ² - 5x - 18)	22.) $(-18x^2 + 4x - 16) - (15x^2 + 4x - 1)$
Model: (remember, it all starts with reading an	nd comprehension)

Number Talk -(- + -)				
8-2	6x- 3x	$6x^2 + (4x^2)$	$6x^2 - 4x + 3x$	
8 - 1	5x - 4x	$5x^2 + x^2$	4x ² + (- 2x) - (-3x ²)	
8 - 0	7x - (-2x)	5x ² - (-x ²)	3x - (-2x ²) + (-4x ²)	†
8 - (-1)	8x - (-4x)	x²- (-4x²)	7x ² - (-4x) - (- 7x ²)	
8 - (-2) 8 - (- 3)	16x - (-6x)	7x ² - (-4x ²)	16x ² - (-6x) + (-x ²)	٥
8 - (- 4)	60x - (-8x)	16x ² - (8x ²)	12x²- (-8x) - 6x²	b
9 - (- 5)	40x - (-40x)	12x ² - (-8x ²)	32x ² + (-8x) - (-4x ²)	



Solve (isolate variable).	Check your answer.
	- I - I - I
(f)	5(2-x) - 3(4-2x) = 20
+2 (g)	2m + 4 - 3m = 8(m - 1)
Part (h)	3m + 12 = 2(m - 3) + 4
(i)	$\frac{x+1}{4} = 5$
6 (j)	$\frac{x}{5} + \frac{x}{3} = 10$
Will take	turns
	Solve (isolate variable). (f) (g) (h) (i) 6 (j) Will take

 Identify operations, Inverses. 	Solve (isolate variable).	Check your answer.
"Sentence"		
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Students will	lake lurns on a	ssigned prop.

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If you finished last set of Solving Problems, let's do more...

(a) 2x - 1 = 9(f) 5(2 - x) - 3(4 - 2x) = 20(b) $\frac{y}{3} + 4 = 12$ (g) 2m + 4 - 3m = 8(m - 1)(c) 2(x + 1) - 7 = 5(h) 3m + 12 = 2(m - 3) + 4(d) 4(y + 3) - 2y = 7(i) $\frac{x+1}{4} = 5$ (e) 5(y + 2) - 4(y - 1) = 6(j) $\frac{x}{5} + \frac{x}{3} = 10$

If you finished last set of Solving Problems, let's do more...

- (a) 2x 1 = 9
- (b) $\frac{y}{3} + 4 = 12$
- (c) 2(x+1) 7 = 5
- (d) 4(y+3) 2y = 7
- (e) 5(y+2) 4(y-1) = 6

- (f) 5(2-x) 3(4-2x) = 20(g) 2m + 4 - 3m = 8(m-1)(h) 3m + 12 = 2(m-3) + 4(i) $\frac{x+1}{4} = 5$
- (j) $\frac{x}{5} + \frac{x}{3} = 10$





Work will go on a Booklet that we will construct.

Do your assigned problem and 4 others. We will include Table of Contents when done. Lose or forget your booklet work, means start over again.

We'll use colors and rulers.

Booklet will include 5 graphs, and 5 checks.

ANd one summary at the End.



Booklet Project = 50 pts. Total

8 pts. per graph and check.

5 pts. for Table of Content and Summary.

5 pts. for presentation of Booklet.

Title is: Solving & Checking Linear Equations by

Graphing. and the CLO: Will be included in the Cover under the title.

Your name also goes on Cover.

Nu	mber Talk	-(-)		
6- (-4)	6x- 4x	$8x^{2} - 4x^{2}$	6x²- 4x	
8 -(-4)	6x - 2x	$7x^2 - 2x^2$	6x - 2x ²	
8 - 12	6x - (-2x)	5x ² - (-2x ²)	6x ² - (-2x)	
12 - (-4)	6x - (-4x)	4x ² - (-4x ²)	6x ² - (-4x)	
12 - 6	6x - (-6x)	3x ² - (-6x ²)	6x - (-6x ²)	
10 - 12	6x - (-8x)	2x ² - (-8x ²)	6x - (-8x ²)	
10 - (-12)	· · · /	. , ,		