AIM: How can we practice two-step equations?

Solve and check the following

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1.	$\frac{4x}{-\lambda} = \frac{14}{-1}$	check ~x =14	2. $3 - 5n = 23$	check 3-5n-33	
	X = -14	-(-14) = 14 14 = 14	-5n = 20	3-5(-4) = 23 3+20 = 23	
		11 17	5 -5	23=23√	
3.	$\frac{m}{3} + 1.5 = 8.7$	check # + 5 = 8.7	4. $\frac{2}{2} \cdot \frac{2}{2} = \frac{4}{8} \cdot 3$	check	
	(3) m = 7.2(3)) 216 +15=8.7	A 1 7 1	$\frac{2}{8} \times = 8$	
	m=21.6	7.2+15=8.7	1 X= 121	3(12)	
		8.7-8.		3 8 = 8 ~	

To "undo" a fractional coefficient: Multiply both sides by the reciprocal of the fraction.

5.
$$\frac{2}{3} \cdot \frac{2}{9} \times = \frac{12}{1} \cdot \frac{9}{2}$$

$$\times = 54$$
6.
$$\frac{7}{11} \times - 17 = 4$$

$$+ 17 + 17$$

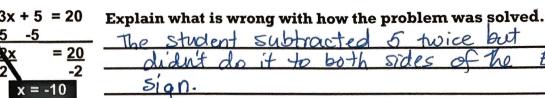
$$\times = \frac{3}{17} \cdot 11$$

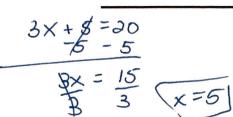
$$\times = 33$$

Last thing done to the variable is the first thing undone!

-2 + 7p = 12 $+2$ $+2$ $+2$ $+2$ $+2$ $+3$ $+2$ $+3$ $+4$ $+2$ $+3$ $+4$ $+3$ $+4$ $+4$ $+7$ $+7$ $+7$	$ \begin{array}{r} $
$\frac{8 + \frac{m}{-3} = 22}{-8}$ $\frac{m}{-3} = 14 \cdot -3$ $m = -42$	$\frac{\frac{2}{5}x + 8 = 4}{5 - 8 - 8}$ $\frac{5}{5} \times = -4$ $\frac{5}{5} \times = -4$ $\frac{5}{5} \times = -4$ $\frac{5}{5} \times = -4$

what is wrong with the way this problem was solved?	3x + -5 -2x -2





Word Problems: Translate each word problem into an equation and solve.

Five minus the product of 2 and a number is 7.

$$2x-g=7$$

$$+5+5$$

$$2x = 12$$

$$x=6$$

ABC Gym costs \$40 to join plus an additional \$12 per month. If you have \$160 to spend, how many months can you afford?

$$12m + 40 = 160$$

$$12m + 40 = 160$$

$$12m = 120$$

$$12m = 120$$

$$12m = 10$$

$$12m = 10$$

You can offord

EQUA

A restaurant sells a coffee refill mug for \$6.75. Each refill costs \$1.25. Last month, Keith spent \$31.75 on refills and a mug. Write an equation you can use to find the number of refills that

Keith bought.
$$\gamma = \# refills$$

$$\begin{array}{r}
 1.25r + 6/5 = 31.75 \\
 -6.75 - 6.75
 \end{array}
 \begin{array}{r}
 1.25r = 25 \\
 1.25 & 1.25
 \end{array}
 \begin{array}{r}
 1.25 & 20 \\
 20 & 20 & refills
 \end{array}$$

Write your own story/word problem for 9x + 25 = 88.

an amusement park cost \$25 to eater and \$9 per ricle. You have \$88 intotal.

Ex 2) Nine times a number increased by 25 is 88