NOTES - Solving Multi-Step Equations and Applications

What this step looks like

More Problems for notes: Solving Multistep Equations

1.
$$19 = 2x - 5x + 4$$

2.
$$6(4 + 3x) = 132$$

3.
$$5-7x+4x=14$$

4.
$$\frac{-3}{4}(8+4x) = -84$$
 5. $2(3x-7) + 4x = 26$ 6. $7x - 4(2-3x) = -21$

5.
$$2(3x-7)+4x=26$$

6.
$$7x - 4(2 - 3x) = -21$$

7.
$$3(3x-1)-2(3x-2)=-9$$

8.
$$3(x + 6) - (6x + 7) - 3x = -9$$

Word Problems: (Acathage Acady Compage & complete talgot on the

1.	The perimeter of the following rectangle if the length is 6 mor	rectangle is 136 units. Find the length and width of the ethan twice the width.
	Equation:	2w + 6
	Solution:	w
2.		distance phone call. The first minute costs \$2.00, and then ifter that. How long can Jane talk on the phone if she has
	Equation:	
	Solution:	

Key

NOTES - Solving Multi-Step Equations and Applications

	Steps	What this step looks like
51_	Distribute * multiply outside number by all terms inside ().	-3(2x-5) -6x+15
52	combine like terms * terms with Same variable raised to Same power	-7a-3b+41-12b
S 3	Undo Addition/Subtraction	$\begin{array}{c} x - 2 = 14 \\ + 2 + 2 \\ \hline x = 10 \end{array}$
SH	Undo Multiplication/Division	$2.\frac{x}{2} = 12.2$ x = 24

More Problems for notes: Solving Multistep Equations

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1. $19 = 2x - 5x + 4$ $-\frac{19}{4} = -\frac{3}{3}x + 4$ $-\frac{15}{3} = \frac{-3}{3}$ $\times = -5$	2. $6(4+3x) = 132$ $241 + 18x = 132$ -24	3. $5 = 7x + 4x = 14$ 5 = 3x = 14 -5 = 3x = 9 -3 = 3x = 9
4. $\frac{-3}{4}(8+4x) = -84$ $\frac{-3}{4}(8+4x) = -84$ $\frac{-3}{4}(8+4x) = -84$ $\frac{-3}{4}(8+4x) = -84$	5. 2(3x-7)+4x=26 (x-14)+4x=26 10x-14=26 +14 +26	6. $7x - 4(2 - 3x) = -21$ 7x - 8 + 12x = -21 19x - 8 = -21 +x - +x
$3 \times \frac{1}{3} \times $	10x = 40	(x + 6) - (6x + 7) - 3x = -9
$\frac{9}{3} \frac{3}{6} = 6 \times 69 = 9$		-6x + 11 = -9
$\frac{1}{3x} = \frac{10}{3}$	A	-6X + -20
X	3	$\left(\frac{x-\frac{10}{3}}{3}\right)$

Word Problems: contrage of the contract of empty of paint on the contract of

Solution: _

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