Multi-Step Equations with CLEARING FRACTIONS -- (NOTES)

Step 1: Find the Least Common Denominator (LCD) or the smallest number that both denominators can divide into

Step 2: Multiply each term by the LCD

Examples: LCD (5 and 10) = 10

LCD (4 and 3) = 12

LCD (2, 4, and 5) = _____ LCD (2, 5, and 10) = _____

Ex 1: $\frac{5}{6}x - 2 = 3$	The only denominator	Ex 2:	$\frac{1}{2} + x =$	<u>3</u> 5	The LCD of 2 and 5 is?
	is?				

Ex 3: $\frac{7}{8} + \frac{x}{2} = \frac{1}{4} - 2x$	What should you multiply each term by?	Ex 4: (Hint – Distribute <u>before</u> clearing) $9 - 6\left(\frac{x}{3} + 1\right) = x$	What should you multiply each term by?

Name______Per A B C D E F Date______ Multi-Step Equations with CLEARING FRACTIONS -- (HOMEWORK)

1)
$$\frac{3}{4}x + \frac{1}{2} = -\frac{5}{2}$$
 LCD: ______ 2) $\frac{1}{4}m - 3 = \frac{1}{2}m + 12$ LCD: ______ 3) $\frac{1}{4}n + n = -3 + \frac{1}{2}n$ LCD: ______
4) $x + \frac{2}{3} = \frac{1}{4}x - 1$ LCD: ______ 5) $\frac{1}{2} + \frac{2}{5}n - 1 = \frac{1}{5}n + n$ LCD: ______ 6) $\frac{1}{5}m + \frac{2}{3} - 2 = m - \frac{2}{5}$ LCD: ______
 $x = -20/9$ $n = -5/8$ $m = -5/8$