Unit 4: Equalities Day 4

Math 9 Principles

4-3 I can solve equations involving fractions by clearing the fractions, multiplying by the Least Common Denominator (LCD).

Solve for x. Show all steps. Circle your answer.

1) $7-\frac{5}{2}x=-3$	2) $\frac{11}{2}x=33$
3) $\frac{1}{5}(x-4)=3$	4) $\frac{3}{4}(x-2)=-3$
5) $5(x-2)-(x+4)=-3(x-4)$	6) $\frac{2}{5}(x+3)=-4(x-1)$
7) $-2(x+4)-3(x-1)=5(x+2)$	8) $-\frac{1}{4}(x-3)=-4$
9) $4(x-1)-(x+2)=3(x-3)-6(x+3)$	
10) $2x+\frac{3}{4}=-\frac{1}{3}$	11) $3x-\frac{4}{5}=-\frac{3}{4}$
12) $4x-\frac{1}{2}=\frac{2}{3}$	13) $x-\frac{2}{3}=\frac{4}{5}$

Write each word problem as an equation and solve showing all steps. Circle your answer.

14) 35 less than half a number is the same as three times the number. What is the number?	15) If you add three-fourths of a number to the number itself, you get 49. What is the number?
16) If you triple a number and then add 10, you get one-half of the original number. What is the number?	17) Five more than two thirds of a number is equal to the original number. What is the number?