olving
quations

LEQ: Which inverse operation do you use to solve an equation?

steps:

1. Box the Variable.

$-15 = \boxed{-4m} + 5$

2. Perform the Inverse Operation.

$-5 \qquad -5$

$\frac{-20}{-4} = \frac{-4m}{-4}$

3. Solve.

$5 = m$

4. Check.

$-15 = -4(5) + 5$

$-15 = -20 + 5$

$-15 = -15$ ✓

We Do Together

$10 - 6v = -104$

olving
quations

LEQ: Which inverse operation do you use to solve an equation?

steps:

1. Box the Variable.
2. Perform the Inverse Operation.
3. Solve.
4. Check.

$$-15 = \frac{m + 5}{3}$$

$$-15(3) = m + 5$$

$$-75 = m + 5$$

$$-5 \qquad -5$$

$$-80 = m$$

$$-15 = \frac{-80 + 5}{3}$$

$$-15 = -75/3$$

$$-15 = -15 \checkmark$$

We Do Together

$$10 - 6v = -104$$

olving quations

LEQ: How can you solve an equations with fractions using the LCM?

steps using the LCM

1) Find LCM

$$\frac{2}{7}x + \frac{3}{4} = \frac{1}{2}$$

2) Multiply the LCM by each term

$$\overset{(28)}{\frac{2}{7}}x + \overset{(28)}{\frac{3}{4}} = \overset{(28)}{\frac{1}{2}}$$

$$\overset{(4)}{\cancel{(28)}}\frac{2}{\cancel{7}}x + \overset{(7)}{\cancel{(28)}}\frac{3}{\cancel{4}} = \overset{(14)}{\cancel{(28)}}\frac{1}{\cancel{2}}$$

3)Simplify

$$(4)2x + (7)3 = (14)1$$

$$8x + 21 = 14$$

4) Solve

$$8x + 21 = 14$$

$$-21 = -21$$

$$\frac{8}{8}x = \frac{-7}{8}$$

$$\boxed{x = \frac{-7}{8}}$$

LCM		
2	4	7
4	8	14
6	12	21
8	16	28
10	20	
12	24	
14	28	
16		
18		
20		
22		
24		
26		
28		

We Do Together

1) Find LCM

$$\left(-\frac{11}{15}x+\frac{4}{5}=\frac{1}{3}\right)$$

LCM = 15

2) Multiply the LCM by each term

$$-\frac{11}{15}x^{(15)}+\frac{4}{5}^{(15)}=\frac{1}{3}^{(15)}$$

3)Simplify

(1)(-11x) + (3)(4) = (5)(1)

4) Solve

-11x + 12 = 5

5) Box the variable, perform the inverse, check your answer.

-11x + 12 = 5

- 12 - 12

-11x = -7

-11 -11

$$x=\frac{7}{11}$$

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LEQ: Which inverse operation do you use to solve an equation?

1. Distributive Property/ Combine Like Terms

2. Box the Variable

3. Perform the Inverse Operation.

4. Solve

$-15 = 2(m - 3m) + 5$

$-15 = 2m - 6m + 5$

$-15 = \boxed{-4m} + 5$

$-5 \qquad -5$

$\frac{-20}{-4} = \frac{-4m}{-4}$

$5 = m$

We Do Together

$2(6v-10) + 10 = -104$