|  |  |
| --- | --- |
|  | |
| Essential Question | What does it mean? |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**Fraction EQUATIONS**

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Steps for solving equations

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How do we solve an equation with a fraction **coefficient** (in front of the variable)?

Without the calculator

Example 1:

½***x*** = 5 *This is the same as:* ***x*** = 5



So, when we divide by any fraction, we flip and multiply it to get an answer of “1”.

Example 2: ***x*** +   = 5

* Example 3 :

Example 4 -5*a* +  = -12

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**Solving Fraction Equations**

Class Work

1. 2.

4

6. Which step would **not** be a possible first step for solving this equation algebraically?

1. multiplying both sides of the equation by six
2. subtracting from 7
3. subtracting from 2*x*
4. multiplying 2*x* and –1 by

Enrichments Activities

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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Solving Equations with Fractions |
| Lesson #7 | Homework |

***Directions: Solve***

1. -5 = ¼*d*
2. 6 = *a* - ¾
3. -2 = *k* + 5

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Do Now

Directions: Solve the following equations without a calculator

1. 8 = 4*x* + 6
2. 10(*x* – 6) = 4*x*
3. 2 = 2*m* – 2 – *m*
4. 3(3 - 10*n*) = -51