

March 9, 2015

Order of Operations

- Simplify Grouping Symbols  
 $( ), [ ], \{ \}, |a|, \frac{a}{b}, \sqrt{a}$   
*\* Do anything possible inside the grouping symbols.*
- Evaluate Exponents  
 $5^3 = 125$
- Multiplication or Division in order from left to right.  
*\* what ever comes first!*
- Addition or Subtraction in order from left to right.  
*\* what ever comes first.*

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#7)  $5x - 0.7 = 6x$

$0.7 = \frac{7}{10}$

$5x - \frac{7}{10} = 6x$  Contains fractions  
*\* 1st goal is to clear the fraction*

$5x - \frac{7}{10} = 6x$

J.C.D. = 10

$\frac{10}{1} (5x - \frac{7}{10}) = \frac{10}{1} (6x)$

$50x - 7 = 60x$  \* Now it's a function!  
 $-50x - 7 = -50x$

$-7 = \frac{10x}{10}$

$-\frac{7}{10} = x$  Ok  
 $x = -\frac{7}{10}$

$5(-\frac{7}{10}) - \frac{7}{10} = 6(-\frac{7}{10})$

$-\frac{35}{10} - \frac{7}{10} = -\frac{42}{10}$

$-\frac{42}{10} = -\frac{42}{10}$

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J.C.D. = 2

$\frac{2}{1} (\frac{5}{1} + \frac{1}{2}x) = \frac{10}{1}$

$\frac{2}{1} \cdot \frac{5}{1} + \frac{2}{1} \cdot \frac{1}{2}x = \frac{2}{1} \cdot \frac{10}{1}$

$10 + x = 20$

$x = 10$

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J.C.D. = 10

$\frac{x}{2} - 1 = \frac{x}{5} + 2$

\* How do we find J.C.D?

pull  $\frac{a}{b} + \frac{c}{d} = \frac{ad}{bd} + \frac{bc}{bd}$

$\frac{10}{1} (\frac{x}{2} - 1) = \frac{10}{1} (\frac{x}{5} + 2)$

$[\frac{10}{1} \cdot \frac{x}{2}] - [\frac{10}{1} \cdot 1] = [\frac{10}{1} \cdot \frac{x}{5}] + [\frac{10}{1} \cdot 2]$

$5x - 10 = 2x + 20$

$3x = 30$

$x = 10$  Ok

$\frac{10}{2} - 1 = \frac{10}{5} + 2$

$5 - 1 = 2 + 2$

$4 = 4$

$\frac{10 - 2}{2} = 4$

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