

# Play For Reinforcement .. Math Games to Engage all



## Workshop Notes



R. Neufeld ... Sr Author/CEO  
[rneufeld@umathx.com](mailto:rneufeld@umathx.com)

Math & Coding by Neufeld Learning  
[www.umathx.com](http://www.umathx.com)

You may want to follow along by going to our website .. [www.umathx.com](http://www.umathx.com) .  
Select the BULLSEYE button.

Follow Video #3 at [www.umathx.com/professional-learning/](http://www.umathx.com/professional-learning/)

- “Bullseye” is both in an online version and a board game version.
- “Bullseye”, is designed to **reinforce** fractions, order of operations, operations.

**FIRST ... We develop Mathematics UNDERSTANDING with UMathX.**

**THEN ... We REINFORCE SOME Math with Bullseye.**

### CONCEPT 1 ORDER OF OPERATIONS

*First we need to agree on an order in performing operations.*

We refer to the 1 example with 2 options below. **Stop the video at 3:30. Do work below.**

Example ...  $(+7) + (+5)(+4)$

Possibilities ...  $(+7) + (+5)(+4)$

**Option 1** .. If we perform Addition First ...

$$= ( ) (+4)$$

=

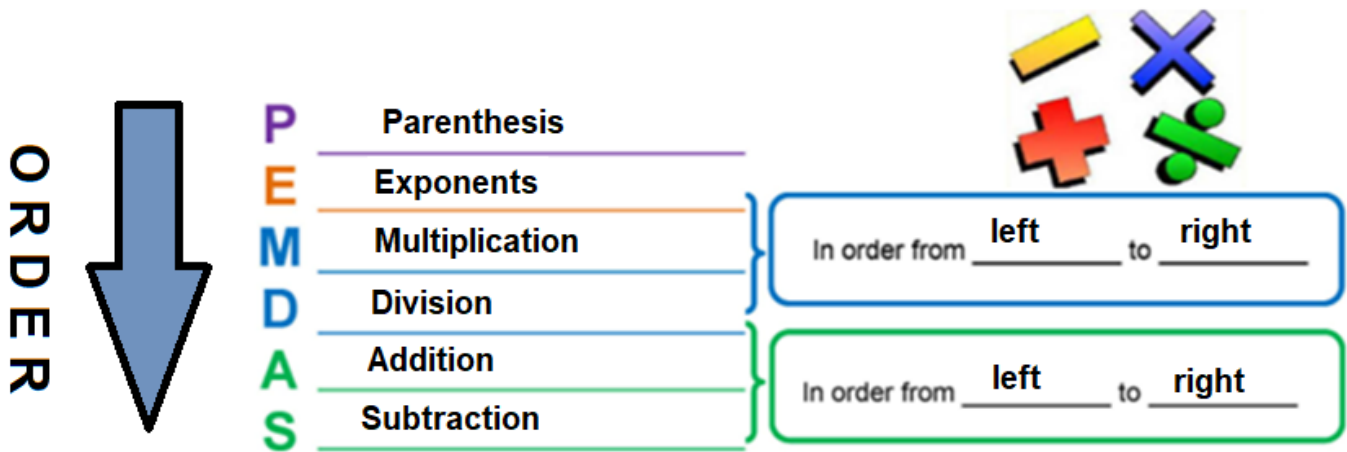
**Option 2** .. If we perform Multiplication First

$$= (+7) + ( )$$

=

Hence we must agree on an ORDER FOR PERFORMING OPERATIONS.

We agree on the following ORDER OF OPERATIONS:



We remember the above with ... Please Excuse My Dear Aunt Sally

Stop the video at 5:40. Do work below.

|                  |   |                  |   |
|------------------|---|------------------|---|
| <b>Example 1</b> | $3(2 + 7)$<br>= _____ (_____)<br>= _____                                | <b>Example 3</b> | $8(3 + 5)$<br>= _____ (_____)<br>= _____                                    |
| <b>Example 2</b> | $6 + 3(9 - 2)$<br>= _____ + _____ (_____)<br>= _____ + _____<br>= _____ | <b>Example 4</b> | $24 + [6 - 3] - 6$<br>= _____ + _____ - _____<br>= _____ - _____<br>= _____ |

CONCEPTS 2 & 3 .. Content WITH 1 & 2 DIGIT NUMBERS & FRACTIONS

Stop the video at 8:17. Check through Items 1 to 6 below.

Please access [www.umathx.com/software](http://www.umathx.com/software)

As you await release of UMathXI, we make following INFORMATION & RESOURCES available at no cost.

1. UMathXI Features
2. Video of UMathXI and UMathX at [www.umathx.com/software](http://www.umathx.com/software)
3. Video of Frameworks for Learning

4. Source of Frameworks and Support Sheets  
[umathx.frameworks/](http://umathx.frameworks/)  
[umathx.support-sheets/](http://umathx.support-sheets/)

5. Select from .. “Specially Adapted UMathXI Frameworks”  
[Visualize-Fractions](#)  
[Adding-Fractions](#)

6. Give Access to a previous version of “Understanding Math” on Windows.  
 a) For K – 3, Click to download [UNumeration08.exe](#) (serial # 3-B18652928-465)  
 Sample Selection: Operations – Introduce Multiplication Facts... 6,7,8,9  
 Example: *Below is only the graphic. Download Numeration and access live.*

a) For 4 – 10, Click to download [UMath08.exe](#) (serial # 5-B17611264-681)  
 Example: Select from menu.  
*Below is only the graphic. Download UMath08 and access live.*

|   |                               |    |   |
|---|-------------------------------|----|---|
| 1 | The Meaning of Fractions      | 9  | Subtracting Fractions                   |
| 2 | Products, Multiples, Factors  | 10 | Multiplying Fractions                   |
| 3 | Equivalent Fractions          | 11 | Dividing Fractions                      |
| 4 | Percent... A Special Fraction | 12 | Order of Operations                     |
| 5 | Introduction to Decimals      | 13 | Improper Fractions and Mixed Numbers    |
| 6 | Percents, Fractions, Decimals | 14 | Addition and Subtraction of Decimals    |
| 7 | Ratios and Proportions        | 15 | Multiplication and Division of Decimals |
| 8 | Adding Fractions              | 16 | Cumulative Check                        |

## Introduce BULLSEYE ...

DEMO 1 ... Single Digit Dice Without Parentheses

Begin the video at 8:17



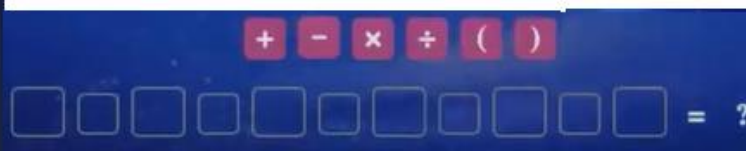
Round 3  
Stop the Video at 13:36  
Try to fill in the equation.



DEMO 2 ... Double Digit Dice With Parentheses



Round 2  
Stop the video at 22:22  
Try to fill in the equation.



Free Access to BULLSEYE for 1 day at ..  
<https://www.umathx.com/temporary-bullseye-access/>

At Video Time 30:14

Begin ... The Nomads by Dr Jiaqi Yu ..

For Access and Information, please contact Rudy Neufeld ... [info@umathx.com](mailto:info@umathx.com)