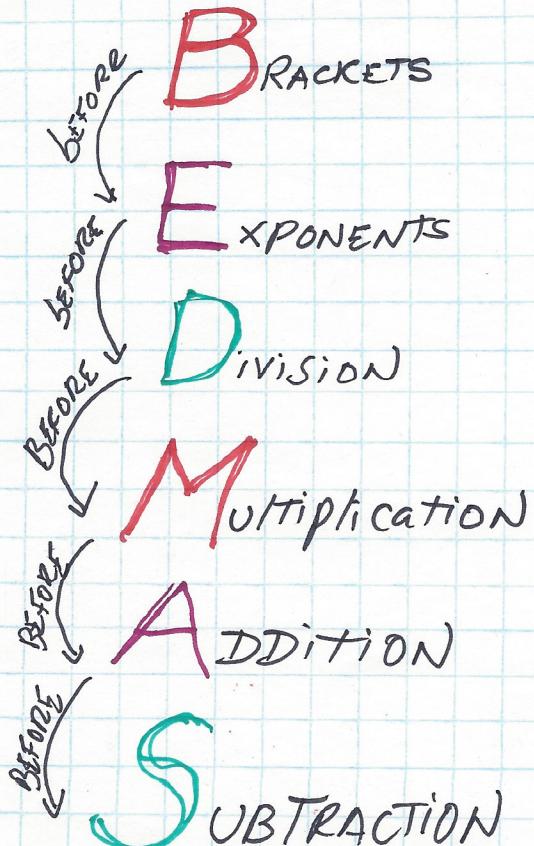


# Unit 3.6

## ORDER OF OPERATIONS WITH DECIMALS

THE GOOD NEWS? NO MATTER WHERE OR WHEN YOU FIND DIFFERENT OPERATIONS AS PART OF A BIGGER, MAJOR OPERATION, YOU ALWAYS WILL USE



THIS IS THE  
ORDER  
OF  
OPERATIONS

# WHEN DO WE USE IT?

ANYTIME THERE IS MORE THAN ONE OPERATION!

• LOOK AT THE PROBLEM:

Is there addition?

Is there subtraction?

Is there multiplication?

Is there division?

If you answer YES TO MORE THAN

1 QUESTION

→ USE BEDMAS)

LET'S DO SOME EXAMPLES

# 1

$$0.38 + 16.2 \times (2.1 - 1.2) + 21 \div 0.8$$

look at the problem:

Is there more than 1 operation? → YES

USE BEDMAS

$$0.38 + 16.2 \times (2.1 - 1.2) + 21 \div 0.8$$

$$\downarrow 1 - \text{BRACKETS} \rightarrow 2.1 - 1.2 = \underline{\underline{0.9}} \text{ so:}$$

$$0.38 + 16.2 \times (0.9) + [21 \div 0.8]$$

$$\downarrow 2 - \text{DIVISION} \rightarrow 21 \div 0.8 = \underline{\underline{26.25}}$$

$$0.38 + [16.2 \times 10.9] + 26.25$$

#3 - Multiplication  $\rightarrow 16.2 \times 0.9 = \underline{14.58}$  So:

$$0.38 + 14.58 + 26.25 = 41.21$$

$\therefore$  ANSWER is 41.21!

BE CAREFUL: IF YOU DON'T FOLLOW  
BEDMAS, YOU'LL GET THE  
WRONG ANSWER !!

H2

$$12.376 \div (4.75 + 1.2) + 2.45 \times 0.2 - 1.84$$

MORE than 1 operation? YES  $\rightarrow$  USE BEDMAS

$$12.376 \div (4.75 + 1.2) + 2.45 \times 0.2 - 1.84$$

#1 - BRACKETS  $\rightarrow 4.75 + 1.2 = \underline{5.95}$  so

$$12.376 \div 5.95 + 2.45 \times 0.2 - 1.84$$

#2 - DIVISION  $\rightarrow 12.376 \div 5.95 = \underline{2.08}$  so

$$2.08 + 2.45 \times 0.2 - 1.84$$

#3 - Multiplication  $\rightarrow 2.45 \times 0.2 = \underline{0.49}$  so

$$2.08 + 0.49 - 1.84$$

#4 - ADDITION  $\rightarrow 2.08 + 0.49 = \underline{2.57}$

?  $2.57 - 1.84 = \underline{0.73}$

# IMPORTANT:

- GO STEP BY STEP. DO THE OPERATION, AND MAKE SURE YOU RE-WRITE THE ENTIRE OPERATION WITH THE NEWLY OBTAINED VALUE!
- REPEAT THIS FOR EACH STEP.
- THIS WILL HELP YOU MINIMIZE THE CHANCE OF MAKING MISTAKES!

Remember :

If more than 1 operation,



**BEDMAS**

RACKETS	Xponents	IS	ULTIPLICATION	DITION	UBTRACTION
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