

# WELCOME TO MBF3C!

## UNIT 0 - REVIEW

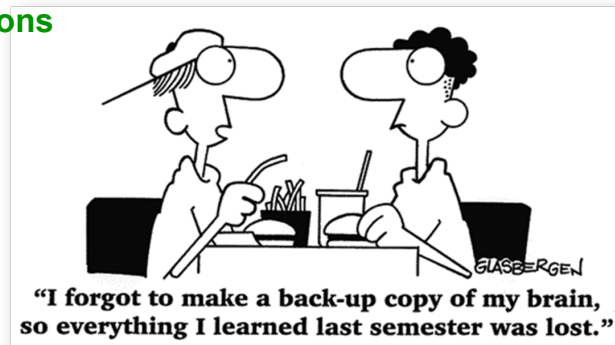
### Learning Goals:

Introductions

Understand Course Expectations

Review Procedures

Think Mathematically Again



## EXPECTATIONS

**Mistakes are great learning opportunities.  
Be generous and share yours.**

**What you already think and know matters.**

**Be respectful of  
yourself,  
the teacher,  
your classmates,  
and the environment**

**Be Positive and Helpful.**

**Be prepared and on-time for every class.**

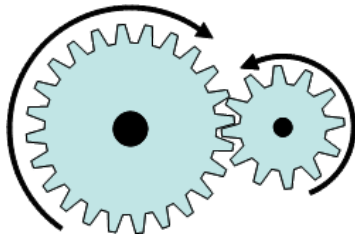
**Use class time effectively. Ask questions to clarify concepts.**

**Rule**



**Consequence**

### Procedures



1. Seating is determined by cards randomly each Monday.
2. Work on Warm - up questions at the beginning of class.
3. Lesson or group activity.
4. Board work.
5. Start homework if time left after board work.

**On the Boards...**

What did you learn...

in grade 9

**percent****integers****graph  
slope  
y-int****solving equations****Pythagorean Theorem**

in grade 10 ?

**similar triangles  
trigonometry****solving linear  
systems****quadratics  
factoring  
vertex  
zeros**

What do you remember from grade 10?

Evaluate:

$$2+3(5)$$

$$= 2 + 15$$

$$= 17$$

$$3(2)+4(7)$$

$$= 6 + 28$$

$$= 34$$

Steps:

1. Decide the order
2. Do them one at a time.
3. Use a calculator  
NOT your phone.



$++ \rightarrow +$   
 $-- \rightarrow +$   
 $+- \rightarrow -$   
 $-+ \rightarrow -$

**On the Boards...**

$$\begin{aligned}
 & 3(2+7)-4 \\
 & = 3(9)-4 \\
 & = 27-4 \\
 & = 23
 \end{aligned}$$

$$\begin{aligned}
 & 3(2+7)^2-4 \\
 & = 3(9)^2-4 \\
 & = 3(81)-4 \\
 & = 243-4 \\
 & = 239
 \end{aligned}$$

$$\begin{aligned}
 & -2(-5)+14\div(-7) \\
 & = 10+(-2) \\
 & = 10-2 \\
 & = 8
 \end{aligned}$$

**FRACTIONS****Add / Subtract**

- common denominator
- adjust the top numbers by multiplying
- add or subtract the top numbers
- keep the bottom the same

$$\begin{array}{ccc}
 \frac{2}{3} + \frac{7}{3} & \begin{array}{c} \times 5 \left( \frac{1}{3} + \frac{1}{5} \right) \times 3 \\ \times 5 \left( = \frac{5+3}{15} \right) \times 3 \end{array} & \frac{1}{3} + \frac{1}{6} \\
 = \frac{2+7}{3} & & = \frac{2+1}{6} \\
 = \frac{9}{3} & = \frac{8}{15} & = \frac{3}{6} \\
 = 3 & & = \frac{1}{2}
 \end{array}$$

## FRACTIONS

**Multiply** - top with top  
- bottom with bottom

$$\frac{2}{3} \left( \frac{3}{4} \right)$$

$$= \frac{6}{12}$$

$$= \frac{1}{2}$$

## FRACTIONS

**Divide** - keep first  
- change to multiplication  
- second is flipped  
- multiply

$$\frac{2}{3} \div \frac{1}{5}$$

$$= \frac{2}{3} \times \frac{5}{1}$$

$$= \frac{10}{3}$$

## FRACTIONS

**Reduce** - always  $\Rightarrow$  divide top and bottom by the same number

$$\frac{10}{12} \xrightarrow{\div 2} = \frac{5}{6}$$

$$\begin{aligned} \frac{27}{81} &\xrightarrow{\div 3} = \frac{9}{27} \\ &\xrightarrow{\div 3} = \frac{3}{9} \\ &\xrightarrow{\div 3} = \frac{1}{3} \end{aligned}$$

### On the Boards...

$$\frac{2}{3} + \frac{4}{5}$$

$$= \frac{10 + 12}{15}$$

$$= \frac{22}{15}$$

$$\frac{2}{3} \left( \frac{7}{8} \right)$$

$$= \frac{14}{24}$$

$$= \frac{7}{12}$$

$$\left( \frac{3}{2} \right)^2$$

$$= \frac{9}{4}$$

$$\frac{3^2}{2}$$

$$= \frac{9}{2}$$

$$\frac{3}{4} \div \frac{8}{9}$$

$$= \frac{3}{4} \times \frac{9}{8}$$

$$= \frac{27}{32}$$

$$\frac{1}{2} + \frac{3}{4} \left( \frac{2}{5} \right)$$

$$= \frac{1}{2} + \frac{6}{20}$$

$$= \frac{10 + 6}{20}$$

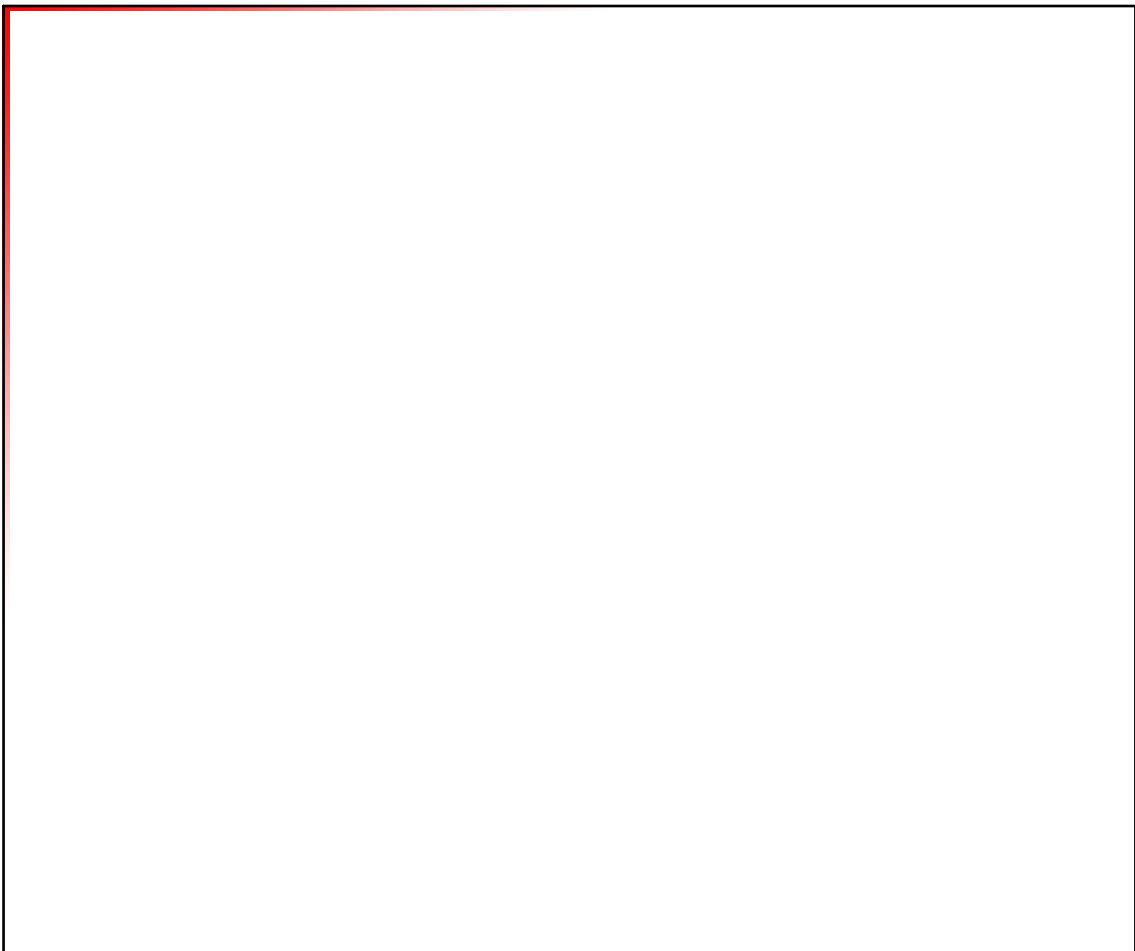
$$= \frac{16}{20}$$

$$= \frac{4}{5}$$

*Homework*

*Fraction Handout*

*BEDMAS Handout - even*





## Attachments

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Mr. Atkinson's Discipline Plan.docx

Mr. Atkinson's Classroom Procedures.docx

Course Outline - 3C.pdf

CourseOutlineMBF3CHSJune2014.docx

scan0003.pdf

scan0004.pdf