| Review: lowest common multiple, greatest common factor, equivalent fractions, improper fractions, mixed numbers | -handout |
| :---: | :---: |
| Rational Numbers | -handout (fill in the blank) <br> -MathMakeSense9: pg 101-103: \#7-11, 15-18, 23, 24 |
| Integers | -handout |
| Adding and subtracting fractions, integers | ```-handout -MMS9: pg 111 #3-5, 9, 11abcd, 13bc, 18 pg 119 #5, 8, 9``` |
| Multiplying fractions, integers: modelling + practice | -handout <br> -MMS9: pg 127 \#7, 9, 11, 12, 15 |
| Dividing fractions, integers: modelling + practice | -MMS 9: pg 134 \#3, 4, 12, 13, 17 |
| Order of operations | -MMS 9: pg140 \#4, 7, 10, 11 |
| Review-no calculator |  |
| Test-no calculator |  |

# A) Review common vocabulary found in fractions and rational numbers 

i) factors:
ii) greatest common factor (GCF):

## -how to find the GCF?

## Try:

iii) multiples
iv) lowest common multiple (LCM)
-how to find LCM?
-how can we use this to help find lowest common denominator?

## Try:

## v) Equivalent fractions

-do handout: part A \# 1-6, 13 part B \#1-6, 23 part D \#1-4

math 8 odyssey unit 1 Page 7
A) More vocabulary
i) improper fraction:
ii) mixed fraction:
B) How to change from mixed number to improper fraction?
C) How to change from improper fraction to mixed number?
-handout: part E: \#1-10, 16-25, 32ab
-Rational Numbers handout: use Math Makes Sense 9 to help you do it.
A) What are rational numbers?
-any number that can be written as a fraction with an integer numerator and a nonzero integer denominator.
ie: $\frac{m}{n}$, where ' $m$ ' and ' $n$ ' are integers, and $n \neq 0$
-can have decimals that terminate or repeat
ex: rational numbers:
ex: not rational numbers:
B) How can we show rational numbers on a number line?
C) How can we tell which rational number is bigger or smaller?
-place values (if comparing decimals)
-look at numerator if equivalent fractions
D) How do I write a negative fraction?

Do: handout
-pg 101-103 \#7-11, 15-18, 23,

# Math 8 Odyssey: Unit 1.4a: Integers 

A) What are they?
-positive and negative whole numbers

## Ex:

B) What do they mean?
C) How to add integers?
D) How to subtract integers?
-handout
-quiz next day (add/subtract integers)
math 8 odyssey unit 1 Page 15

Unit 1.4b: Adding/subtracting Rational Numbers

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A) How to do it?
-use same ideas of adding/subtracting fractions and positive/negative numbers
*use common denominators!!

## Ex:

-MMS9: pg 111 \#3-5, 9, 11abcd, 13bc, 18
pg 119 \#5, 8, 9
math 8 odyssey unit 1 Page 17
math 8 odyssey unit 1 Page 18

Unit 1.5 Multiplying and Dividing Integers

## A) How to multiply integers?

-see the pattern?

## -what about:

Rule:

# B) What if I have to show it on a number line? 

C) How do I divide integers? -same rules!
math 8 odyssey unit 1 Page 21
math 8 odyssey unit 1 Page 22

## A) What does it mean?

Ex: $3 \times \frac{4}{7}$
-as a model:

## Ex: How to do:

$$
\frac{3}{5} \times \frac{1}{4}
$$

## Ex: How to do:

## Ex: How to do:

math 8 odyssey unit 1 Page 25

Unit 1.7: Dividing Fractions
July 20, 2015 5:28 PM
A)
-do: MMS9: pg 134 \#3, 4, 12, 13, 17

Unit 1.8: Order of Operations (BEDMAS)

In your group, use your electronic device to fill in the blanks:
The person or culture who invented the order of operations was $\qquad$ .

In Canada, we call it $\qquad$ . The U.S. calls it $\qquad$ , while the U.K. and Australia uses the acronym $\qquad$ .

Since we are in Canada, we will use the acronym $\qquad$ in class. Each letter in the acronym stands for mathematical procedure, so:

$$
\begin{aligned}
& \mathrm{B}= \\
& ==\text { exponents } \\
& == \\
& == \\
& = \\
& =
\end{aligned}
$$

Please note that though some of the letters come before others, it is slightly misleading. For example, in the question: $10-3+2=$ $\qquad$ and not
$\qquad$ even though $\qquad$ comes before $\qquad$ in the acronym.

Try:

Do:

Math 8 Odyssey Unit 2: Fractions/Decimals/\%

Unit 2: fractions/decimals/\%
Relationship between fractions, decimals MMS8: pg 239 \#6, 7, 9, 12, 14, 18ab, 20, 21 and \%

| \% problems(pyramid), sales tax | MMS8: $\begin{array}{rl}\mathrm{pg} & 252 \# 3,4,7,9 \\ \mathrm{pg} 260 \# 4,6,11,12,13\end{array}$ |
| :---: | :---: |
| \% problems in reality | -newspaper ads, glue, scissors |
| Commission | -smartphone/tablet |
| Ratios | $\begin{aligned} &- \text { MMS8: } \text { pg 267: \#4, 5, 8, } 10 \\ & \text { pg } 274 \# 5,7,8,10 \\ & \text { pg } 291 \# 4,6,7,10,13 \end{aligned}$ |
| rates | MMS8: $\begin{aligned} \text { pg } 298 \text { \#5-7, } 8 \\ \text { pg } 303 \text { \#6, } 8,11,16\end{aligned}$ |
| Review |  |

