NUMERACY REVIEW - DAY 2 - NOTE

MULTIPLYING & DIVIDING INTEGERS

Rules for Multiplying and Dividing Integers

- 1) Determine the sign on the answer first
 - If the integers have the **SAME Signs**: the answer is
 - If the integers have **DIFFERENT Signs**: the answer is
- 2) Determine the numeric value of the operation

Examples: $-2 \times 7 =$ $-1 \times 4 =$

 $-12 \div 6 =$

Examples:

3 x - 7 =

 $3 \times -4 =$

 $40 \div -5 =$

Examples:

 $6 \times 3 =$

28 ÷ 7 =

 $54 \div 9 =$

Examples: $-8 \times -3 =$

-24 ÷ -6 =

WHAT WILL IT LOOK LIKE? Other Ways To Write x and ÷

Another way to indicate multiplication of numbers in math is to use brackets () around one or more numbers.

Examples:

3(4) =

(8)(-2) =

-6 (-7) =

Another way to show division of numbers in math is to write them as a fraction

Examples:

We can also put multiplication and division together this way

Examples:

Remember to do brackets first (order of operations)

THE INVISIBLE ONE (1)

When there is a negative sign IN FRONT of a bracket, there is an invisible "1" between the negative sign and the bracket

Examples:

- (3) means

-(-6) means

This explains the rule for subtracting negatives (see yesterday's lesson)
SUBTRACTING A NEGATIVE IS LIKE ADDING A POSITIVE

Yesterday we saw that 3 - (-5) = 3 + 5 this is because 3 - (-5) = 3 - 1(-5) Since -1(-5) = 5 = 3 + 5

CALCULATE

(a)
$$(-2) \times (+5) \times (-7)$$

=

=

(b) $(-2) \times (-3) \times (-4)$

=

=

(c)
$$(+6) \times (-5) \times (+4)$$

=

=

(d) $(+8) \times (-2) \times (-5)$

=

=

(e)
$$(-12)(+15)(-6)$$

=

=

(f) (-10)(4)(6)

=

=

(g)
$$(2)(-7)(-5)$$

=

=

(h)
$$(-1)(-2)(-3)(-4)$$

=

=

Find a pair of integers that meet the following requirements

a) Multiply to 6 Add to 5

- b) Multiply to -10 Add to -9
- c) Multiply to 25 Add to -10