UMATH X

Concept: Dividing Integers

Name:

COMPUTER COMPONENT

Instructions: In **UMATH X** follow the **Content Menu** path:

Whole Numbers and Integers > Dividing Integers

Work through all Sub Lessons of the following Lessons **in order**:
- *Division to Multiplication*
- *The Division Table*
- *The Inverse of Multiplication*
- *Summary #1 ... Signs*
- *Summary #2 ... Signs*
- *Example Questions*
- *Word Problems*

As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

OFF COMPUTER EXERCISES

1. First, write what you think the meaning is of the following mathematical terms. Then, proceed to use a use a dictionary to confirm your thinking. *How close were you?*

(a) **inverse**   *(Division is the <u>inverse</u> of multiplication)*

Your definition- _____

_____

Dictionary definition- _____

_____

Use this expression to demonstrate how division is the inverse of multiplication.

$$(-6) \times (+5) = (-30)$$

_____

_____

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(b) **quotient**   *(The quotient of two integers ...)*

   Your definition- _____

   _____

   Dictionary definition- _____

   _____

2. Demonstrate your knowledge of dividing integers by completing the table below.

Type of Integer	Divided By	Type of Integer	Is Equal To	Sign of the Answer
positive	÷	positive	=	
positive	÷	negative	=	
negative	÷	positive	=	
negative	÷	negative	=	

   Therefore,

   The product of 2 integers with the same sign is _____.

   The product of 2 integers with different signs is _____.

3. Find the quotient foe the following.

   (a) $(+63) \div (-7) =$ (b) $45 \div (-5) =$ (c) $(-36) \div (+6) =$

   (d) $(-72) \div (-8) =$ (e) $(+48) \div (+12) =$ (f) $(-32) \div 4 =$

   (g) $\dfrac{(+50)}{(+5)} =$ (h) $\dfrac{(-44)}{(-11)} =$ (i) $\dfrac{(+4)}{(-1)} =$

   (j) $\dfrac{(+21)}{(-7)} =$ (k) $\dfrac{(+90)}{(-2)} =$ (l) $\dfrac{(-81)}{(-9)} =$

4. Kim's dad is trying to lose weight by eating a well-balanced diet and following a regular exercise program. If Kim's dad loses 56 pounds in 28 weeks, how much weight is he losing per week?

_____

_____

5. Daniel got paid $60 for babysitting 12 hours. How much did he earn per hour?

_____

_____