Activity Sheet

UNIT 2

Lesson 9: Integer Multiplication & Division • Inverse Operations

Inverse OperationsOperations that "undo" each other7 + 3 - 3 = 7 addition/subtraction $\frac{7 \bullet 2}{2} = 7$ multiplication/divisionInteger Multiplication & DivisionRules: \circ Like signs \rightarrow positive product \circ Unlike signs \rightarrow negative productExamples:a. (7)(9) b. (-7)(9) c. (-7)(-9) d. (7)(-9)

Lesson 10: Division by Zero • Conversions of Area

 $\frac{Division by Zero}{0}$ $\frac{0}{13} \neq \frac{13}{0}$ Ex. 10.1: Evaluate: a. $\frac{4-2-2}{13}$ b. $\frac{13}{4-2-2}$

<u>Conversions of Area</u> Steps:

1. Separate square units of given measurement into unit x unit

2. Multiply by unit multiplier (number of desired unit in given unit)

 \rightarrow How do you know which goes on top? You want to cancel out the unit you don't want and keep the unit you do want.

Ex 10.5: Use two unit multipliers to convert 44 sq. inches to sq. centimeters. (1 in = 2.54 cm)

Ex 10.6: Use four unit multipliers to convert 125 sq. centimeters to sq. feet. (1 in = 2.54 cm)

Lesson 11: Reciprocal • Identifying Multiplication and Division

<u>Reciprocal</u>

• Inverted form of a fraction $\frac{3}{2}$ $\frac{2}{3}$

Activity Sheet

- Whole numbers: over 1 4 $\frac{1}{4}$
- Multiply by reciprocal to get 1

Identifying Multiplication and Division Be careful! Adding the opposite can be helpful.

4 - 3(5) - 7(-6) - 4(-5)4 - 3(5) - 7(-6) - 4(-5)

Lesson 12: Symbols of Inclusion • Order of Operations

Symbols of Inclusion • Parenthesis, brackets, braces, and bars (?) 4 + (5-2) 4 + [5-2] $4 + \{5-2\}$ 4 + 5 - 2

Order of Operations

Please Excuse My Dear Aunt Sally (PEMDAS) Parenthesis, Exponents, Multiplication/Division, Addition/Subtraction

Simplify.

Ex. 12.3: -2(-3-3)(-2-4) - (-3-2) + 3(4-2)Ex. 12.4: 5(-5+3) + 7(-5+9) + 2(4-2) + 3 + 5