

Name: _____

Date: _____ Per: _____

Lesson 3.2.5 Homework

3-82. Simplify each expression without using a calculator. For each expression, draw a diagram or use words to explain how you know your answer makes sense.

a. $-8 \div -4$

b. $18 \div -3$

c. $-24 \div 2$

d. $17 \div -1$

3-83. Follow the Order of Operations (use circling the terms if it is helpful) to simplify the following expressions:

a. $-7 + 4 \div (-2)$

b. $17.5 \div (-7) + -8.1(2)$

c. $(8 + -3)(-5 \frac{3}{5})$

d. $(4 - (-3)) + (5 \div (-5))$

3-84. Read the Math Notes box in this lesson. Use the information to find the multiplicative inverse, or reciprocal, of each number below.

a. $\frac{7}{13}$

b. $\frac{1}{5}$

c. 2

d. $2 \frac{5}{8}$

e. Check your answers by multiplying the given number with your answer and verifying that the product of the numbers is 1.

3-85. Write at least three expressions that use each of the numbers 2, 3, 6, and 8 only once and any operations and grouping symbols (addition, subtraction, multiplication, division, and parentheses). Each expression should have a different value, with one being equal to 28.