Name:_____ Date:_____ Per:_____ Folder #: _____

Math 7 Unit 3 Study Guide

Directions: No Calculator! Answer each question completely. <u>Show ALL work</u> to defend your answers.

1. Consider this problem: $-6 + 9\,(-2) + 3(3) =$

a.   How many terms are in the expression? _____

b.   Show your steps and simplify the expression.

2.   Compute. Show your work.

a. $15.12 + 9.4$ b. $18.3 - 7.6$

c. $(1.6)(9.12)$ d. $(6.5)(2.3)$

3.   Use the order of operations to simplify the following expressions and decide which expression has the greatest value. Circle and label the expression with the greatest value.

a. $(-36 \div 6) + (42 \div -7)$ b. $8 + 9 \cdot 3$

c. $(3)(-18) + (-67)$ d. $2(14 - 9) - (17 - 14)$

4. Select all expressions with a value equivalent to 6 – (–4)

☐ 6 + (–4)

☐ 6(–4)

☐ –(6 + 4)

☐ 6 + 4

☐ –[(–6) + (–4)]

☐ –6 – 4

5. Mr. Nova is dividing up a $5\frac{1}{2}$ pound bag of nuts into smaller portions. Show your work in at least two ways.

a.   How many $\frac{1}{4}$ pound bags of nuts can be made from a $5\frac{1}{2}$ pound bag of nuts?

b.   How many $\frac{3}{4}$ pound bags of nuts can be made from a $5\frac{1}{2}$ pound bag of nuts?

6. Find each product. Show your work and simplify your answer.

a. $\frac{6}{12} \times \frac{5}{10} =$

b. $1\frac{7}{8} \times 1\frac{2}{3} =$

c. $5\frac{3}{4} \times 7\frac{2}{3} =$

d. $\frac{9}{11} \times \frac{2}{6} =$

Review & Remember: 7. For each of the following, determine the number that would make the equation

true.

a. $-18 = \underline{\quad} \cdot (-3)$

b. $\underline{\quad} + 8 = -20$

c. $\underline{\quad} \cdot 6 = -42$

d. $10 + \underline{\quad} = -3$