

Name: _____ Date: _____ Per: _____

Math 7 Unit 2 Study Guide

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

1. Calculate the following, then place the answers in order from least to greatest.

a. $-20 - 6$

b. $-2 - (-12)$

c. $-5(-2) - 9(9)$

2. Show a diagram of +’s and -’s that each expression could represent then find the value of the expression.

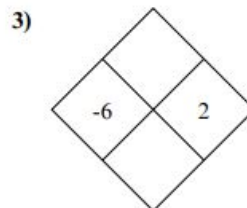
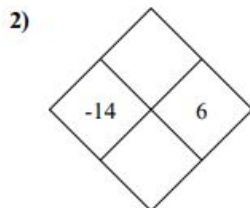
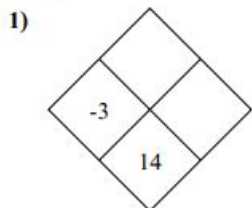
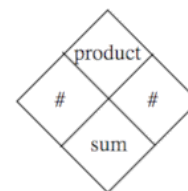
a. $-4 + 7 + (-2) =$

b. $6(-2) =$

c. $3 + (-8) + 4 =$

d. $3(-7) =$

4. Solve the diamond problems below:



5. Find the value of the following expressions.

a. $15 - 21 =$

i. $4 \cdot (-5) =$

b. $11 + (-6) =$

j. $16 \div (-4) =$

c. $(-8) - (-10) =$

d. $(-8) + (-10) =$

e. $21 - 15 =$

f. $(-11) - 6 =$

g. $(-6) - (-9) =$

h. $6 + (-9) =$

k. $(-5) \cdot (-6) =$

l. $(-16) \div (-2) =$

m. $(-7) \cdot 3 =$

n. $(-50) \div 5 =$

o. $6 \cdot 3 =$

p. $30 \div 10 =$

6. Mrs. Mahar made an error when she was adding fractions. Check over the steps she used to solve the problem. Identify and explain the error to Mrs. Mahar. Then rework the problem correctly.

$$\frac{2}{3} + \frac{4}{5} = \frac{6}{15}$$

15 15

Rework the problem

Identify and Explain the Error

Review & Remember: Ms. Dudley reached into a bag, recorded the color of the tile she picked, returned the tile and drew again. These are the tiles she has drawn so far:

red, red, blue, yellow, blue, red, green, red, blue, green

Based on this data, what is the probability that her next draw will be red or yellow? Explain how you know.

P (red or yellow) = _____ I know that the probability of drawing red or yellow is _____ because _____
