Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lesson 12 Decimals Notes**

NEW CONCEPT

EXAMPLES

EXAMPLES

 EXAMPLES

**WRITING WHOLE NUMBERS AND DECIMALS:**

 EX: Is 117 the same as 117.0?

 Is 12.5 the same as 125?

 Is 84.2 the same as 84.20?

 Is 19 the same as 19.00?

**ADDING AND SUBTRACTING**—LINE UP THE DECIMALS AND BRING IT DOWN INTO YOUR ANSWER!

EX: 5.1 + 9.08 + 12 EX: 17.7 – 8.19 EX: 91 – 6.8

**MULTIPLYING:**

 1. MULTIPLY THE NUMBERS.

 2. THEN COUNT THE NUMBER OF DECIMAL PLACES TO THE RIGHT OF

 THE DECIMAL AND INSERT IT INTO YOUR ANSWER! (STARTING FROM

 THE RIGHT OF THE ANSWER.)

EX: 0.5 X 0.5 EX: 0.325 X 0.7 EX: 0.071 X 5000

**DIVIDING:**

PARTS: DIVISOR—THE OUTSIDE NUMBER

 DIVIDEND—THE INSIDE NUMBER

 QUOTIENT—THE ANSWER

 

1. YOU MUST ALWAYS DIVIDE BY A WHOLE NUMBER.

2. MOVE THE DECIMAL IN THE DIVISOR TO MAKE IT WHOLE AND THEN MOVE

 THE DECIMAL IN THE DIVIDEND THE SAME NUMBER OF SPACES.

3. MOVE YOUR DECIMAL STRAIGHT UP AND KEEP YOUR NUMBERS ALIGNED!

4. DIVIDE!

 (\*\*HINT\*\*The 1st number ALWAYS goes inside the box—dividend)

EX: 646 ÷ 20 EX: 9.52 ÷ 0.4 EX: 6.48 ÷ 0.08

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class:\_\_\_\_\_\_**

**LESSON 12: OPERATIONS WITH DECIMALS**

**NO WORK-NO CREDIT (NWNC)**

1. Frank has a plank of wood 20 meters long. \_\_\_\_\_\_\_\_\_

 He wants to cut it into pieces 4 meters long.

 How many pieces of wood that length can he

 cut from the plank?

2. A group of 6 adults bought tickets to a play at \_\_\_\_\_\_\_\_\_\_

 the community center. The tickets cost $17.50

 each. How much did the tickets cost in all?

3. Teri collects loose change in 3 cans placed near \_\_\_\_\_\_\_\_\_\_

 cash registers at the mall. One can holds #37.18.

 The second can holds $44.25. The third can holds

 $50.84. If Teri combines all of the change together,

 how much will she have?

4. In the Pacific Ocean, the Philippine Trench is 10.05 km \_\_\_\_\_\_\_\_\_\_

 deep. In the Atlantic Ocean, the Brazilian Basin is

6.12 km deep. How much deeper is the Philippine

Trench than the Brazilian Basin?

5. 3.05 ÷ 0.5 6.  7. $29.75 x 3.5

 \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

8. 0.047 x 8 9. 28.9 + 17 + 1.62 10. 97.3 – 16.22

 \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

**(See Other Side)**

**Write as a decimal:**

11. twelve and 2 tenths 12. 7 hundredths 13. one and one

 thousandth

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

**Compare using <, >, or =. (NWNC)**

14. 12.5\_\_\_\_\_12.005 15. 0.222\_\_\_\_\_0.33 16. 5.55\_\_\_\_\_0.5