**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Percent Word Problem Homework**

Directions: Before you solve each problem, circle if you are solving for the PART or the WHOLE first. If you are solving for the WHOLE you must use the percent proportion method below.

A proportion showing one fraction  with PART as the numerator and WHOLE as the denominator equal to another fraction with PERCENT as the numerator and 100 as the denominator.

1. If 48% of the students in a certain college are female and there are 2,400 female students, what is the **total number** of students in the college?

PART or WHOLE

2. If 25% of the students in elementary algebra courses receive a grade of A, and there are 300 students enrolled in elementary algebra this year, how many students will receive an A?

PART or WHOLE

3. A farmer owns 28 acres of land. Of the 28 acres, only 65% can be farmed. How many acres are available for farming?

PART OR WHOLE

4. The monthly budget for the front of the house is $9,000. You spent 6% of the budget on fresh flowers. How much did you spend on fresh flowers?

PART or WHOLE

5. A student answered 86 problems on a test correctly and received a grade 98%. **How many problems were on the test**, if all the problems were worth the same number of points?

PART or WHOLE

6. Vilenda bought an electric drill at 85% of the regular price. She paid $32.89 for the drill. What was the **regular price**?

PART or WHOLE

7. Joseph answered 88 questions correctly on a 100 question test. What percent of the test did Jason answer correctly?

8. Nychollas poured 6 cups of water into a jug. The jug was 40% filled. **How many cups of water does the jug hold**?

PART or WHOLE

9. Heaven climbed 60 feet up a hill. This distance represents 5% of the hill’s total height. What is the height of the hill?

PART or WHOLE

10. 10 is 25% of what number? \_\_\_\_\_\_\_

11. 16 is 80% of what number?\_\_\_\_\_\_\_\_

12. What is 55% of 180?\_\_\_\_\_\_\_\_\_\_\_\_\_

13. What is 3% of 73?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Discounts, Sales Tax, and Tip Practice:**

When you are finding the **discount**, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the original amount.

When you are finding the **sales tax**, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the original amount.

When you are finding the **tip**, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the original amount.

14. Each of the following has a 30% discount. Find the **sale price** of each.

a. A bike that originally costs $109.95

b. A shirt that originally costs $38

15. A video game from Game Stop costs $55 and has a 7% sales tax. How much sales tax will you have to pay?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. What is the final price, including tax?\_\_\_\_\_\_\_\_\_

16. H & M has a pair of jeans that costs $99. They are having a 25% off sale. How much money will you save with the discount?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ How much will you pay for the jeans?\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Abi wants to buy a sweater for $40. There is a 6% sales tax. If Abi pays the cashier with a $50 bill, how much change will she receive? \*Hint, find the sales tax first!

18. You and your family go to the Wing Café for dinner. The bill is $47.50. Your mom wants to leave the server a 15% tip. How much tip will she leave for the server?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is the total cost for your family’s dinner?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_