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

**Worksheet 15**

1. For the following table, fill in the missing parts for converting fractions to decimals to percent, and vice versa. Show work as necessary.

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percent |
|  |  | 82% |
|  | .07 |  |
| 2/10 |  |  |
|  |  | 7.5% |
|  | .22 |  |
| 4/9 |  |  |

1. Use a proportion to solve. Show your work.

The distance between two cities is 600 miles. The scaled distance between the cities on a map is drawn as 3 ½ inches. If the distance between two other cities is 1020 miles, what is the scaled distance between them on the map?

1. Find the final cost of an item that costs $85 with 8% sales tax. Show your work. Using a proportion can be helpful.
2. Use a proportion to solve. Show your work.

If the ratio of students to teachers in a school is 20 to 1 and there are 800 students, how many teachers are there?

1. Solve and show your work. Using a proportion can be helpful.

What is 75% of 95?

1. Solve and show your work. Using a proportion can be helpful.

This semester, you spent $550 on books. If this amount represents 40% of your student loan, how much is the amount of the loan?

1. Solve and show your work. Using a proportion can be helpful.

What is the cost of a pair of shoes that is listed for $80 with a 25% discount?

1. Solve and show your work. Using a proportion can be helpful.

What is the final cost of a pair of jeans that is listed for $60 with a 30% discount and 7% tax?

1. Solve and show your work. Using a proportion can be helpful.

15 is what percentage of 80?

10. Solve and show your work. Using a proportion can be helpful.

20 is 20% of what number?

11. Calculate mentally. Show your work for your thought process

25 percent of $160

12. Calculate mentally. Show your work for your thought process

15 percent of 80

13. Calculate mentally. Show your work for your thought process

20 percent of $45

14. Identify the set(s) of numbers to which each given number

belongs. Use the letters NWZQIR.

1. -1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 0.7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. Identify the number property that is being used. Be specific to

whether it is Addition or Multiplication.

1.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_