Name _____   Date _____

Multiplying and Dividing by 10, 100, and 1000

In this worksheet, we will practice the "trick" of multiplying and dividing by 10, 100, and 1,000.

When you multiply by 10, you move the decimal once to the right (1.35 x 10 = 13.5)	When you divide by 10, you move the decimal once to the left (123.5 ÷ 10 = 12.35)
When you multiply by 100, you move the decimal twice to the right (1.536 x 100 = 153.6)	When you divide by 100, you move the decimal twice to the left (148.2 ÷ 10 = 1.482)
When you multiply by 1,000, you move the decimal three times to the right (1.2345 x 1,000 = 1,234.5)	When you divide by 1,000, you move the decimal three times to the left (259.3 ÷ 1,000 = .2593)
If there is no decimal, you just add one, two, or three zeroes onto the number.	If there is no decimal, pretend there is one after the whole number and move it. Add zeroes where the empty spaces are (4 ÷ 1,000 = .004)
3 x 10 = 30; 45 x 100 = 4500; 21 x 1,000	Also, if you run out of numbers when you are moving a decimal, add zeroes. .42 ÷ 100 = .0042

Exercise Questions:

1. 2.65 x 10 = _____

2. 2.685 x 10 = _____

3. 3.127 x 100 = _____

4. 4.829 x 100 = _____

5. 7.856 x 1,000= _____

6. 310.9 ÷ 10 = _____

7. 834.6 ÷ 10 = _____

8. 175.12 ÷ 100 = _____

9. 25.96 ÷ 100 = _____

10. 475.98 ÷ 1,000 = _____

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3 x 10 = 30; 45 x 100 = 4500; 21 x 1,000	Also, if you run out of numbers when you are moving a decimal, add zeroes. .42 ÷ 100 = .0042

Exercise Questions:

1. 2.65 x 10 = ___26.5___

2. 2.685 x 10 = ___26.85___

3. 3.127 x 100 = ___312.7___

4. 4.829 x 100 = ___482.7___

5. 7.856 x 1,000= ___7,856___

6. 310.9 ÷ 10 = ___31.09___

7. 834.6 ÷ 10 = ___83.46___

8. 175.12 ÷ 100 = ___1.7512___

9. 25.96 ÷ 100 = ___.2596___

10. 475.98 ÷ 1,000 = ___.47598___