The Super Powers of Ten

Name:_____ Date:_____

Powers of ten are numbers that are divisible by 10.
Review the examples below, then solve the problems.

To multiply a whole number by a power of ten, count the number of zeros after the 1 and add the same number or zeros (or place values) to the end of the whole number you are multiplying.

52 x 10 = 520
37 x 100 = 3,700
4 x 1,000 = 4,000

0.52 x 10 = 5.2
0.37 x 100 = 37
0.048 x 1,000 = 48

To multiply a decimal by a power of ten, move the decimal point one place to the RIGHT for each zero after the 1.

Multiply by the power of ten.

1) 0.45 x 10 = _____

2) 81 x 1,000 = _____

3) 0.216 x 100 = _____

4) 1.07 x 100 = _____

5) 973 x 10 = _____

6) 0.75 x 10,000 = _____

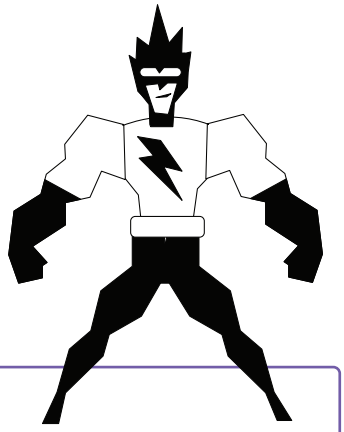
7) 63 x 1,000 = _____

8) 0.059 x 10 = _____

9) 1,048 x 100 = _____

1.6 ÷ 10 = 0.16
520 ÷ 10 = 52
37 ÷ 100 = 0.37
48 ÷ 1,000 = 0.048

To divide a number by a power of ten, move the decimal point LEFT as many places as there are zeros in power of ten. If there are not enough digits in the number you are dividing, you may add zeros.



Divide by the power of ten.

10) 1.27 ÷ 10 = _____

11) 3,948 ÷ 100 = _____

12) 56 ÷ 1,000 = _____

13) 8 ÷ 10 = _____

14) 470.1 ÷ 100 = _____

15) 2.35 ÷ 1,000 = _____

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