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.



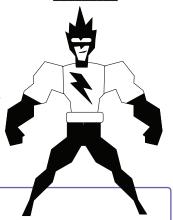
To multiply a whole number by a power of ten, count the number of zeros after the 1 and add the same number or zeros (or place values) to the end of the whole number you are multiplying.

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.

ANSWERS

□ 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 48 \div 1,000 = 0.048 \cdot there are not enough digits in the number you are dividing, you may add zeros.



Divide by the power of ten.

10)
$$1.27 \div 10 = 0.127$$

12)
$$56 \div 1,000 = 0.056$$

15)
$$2.35 \div 1,000 = 0.00235$$