

Name: Key

5th Grade Notes 6.14 Divide Decimals by Powers of Ten p. 461

To divide decimals by powers of ten:

-move the dec. point to the left the same number of places as the number of zeros (# gets smaller)

-add zeros at the end if necessary

-if it's a 10 with an exponent, move the decimal point the same number of places as the exponent

-don't forget, if there is no decimal point written, it's to the right of the Ones place; Ex: $63 = 63.$

Ex: $219.5 \div 10 =$
one zero
move one place
 $219.5 = 21.95$

Ex: $190.5 \div 100 =$
 $190.5 = 1.905$

Ex: $2.15 \div 10^2 =$
2 zeros
fill in zero
 $.0215 = .0215$

Ex: $19.2 \div 10^3 =$
 $.0192 = .0192$