4.5 Multiplying and Dividing by Powers of Ten

 Whole Number Powers of ten

 Decimal Powers of ten

 Table of products

 Key Concept box Pg 193

 Multiplying by Whole Number Powers of Ten: Move the decimal one spot to the **Right** for each zero in the whole number power of ten

 Multiplying by Decimal Powers of Ten: Move the decimal one spot to the **Left** for each decimal place in the decimal power of ten

 Key Concept box Pg 194

 Dividing by Whole Number Powers of Ten: Move the decimal one spot to the **Left** for each zero in the whole number power of ten

 Dividing by Decimal Powers of Ten: Move the decimal one spot to the **Right** for each decimal place in the decimal power of ten

Please Notice that these are opposites

Scientific Notation: Short hand writing for very large numbers using whole number powers of ten.