4.5 Multiplying and Dividing by Powers of Ten

Whole Number Powers of ten

Decimal Powers of ten

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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.