

**Converting
Numbers to
Scientific
Notation**

**Converting
Numbers from
Scientific
Notation**

- To convert a number to scientific notation, position a decimal point so that there is one non-zero digit to the left of the decimal point.
- Count how many places you moved the decimal to the right or left. This will be the exponent of the 10.
- If the original number was less than 1, the exponent will be negative. If the original number was greater than 1, the exponent will be positive.

Convert 345,000 to scientific notation.

Convert .00002456 to scientific notation.

- Look at the value of the exponent on the 10. This is how many places you will move the decimal point.
- If the exponent on the 10 is positive, the original number was greater than 1. Move the decimal point to the right that many places.
- If the exponent on the 10 is negative, the original number was less than 1. Move the decimal point to the left that many places.

Convert 2.45×10^{-5} from scientific notation.

Convert 1.67×10^8 from scientific notation.