NAME DATE

Module 11 Simplifying Algebraic Expressions

with Polynomials

Lesson 2 Using Scientific Notation



Lesson Objectives

- Convert numbers between scientific notation and standard form.
- Multiply and divide numbers written in scientific notation.

Scientific notation is used for keeping track of place value in	
or numbers.	
A number is in scientific notation if it is written in the form $___$	
$a < \underline{\hspace{1cm}}$ and n is an integer.	
In scientific notation, small numbers are written with	- <i>,</i>
and larger numbers are written with	
The number of meters in one micron is 1×10^{-6} . Write this number in	
standard form.	_
There are 110,000 hairs on an average human head. Write this number in	
scientific notation.	_
Each side of a square microchip is 9×10^{-3} m long. Find the area of the	
microchip.	_
The mass of Earth is 6×10^{27} g. The mass of the planet Pluto is	
$1.3\times10^{25}\ \text{g}.$ How many times greater is Earth's mass than Pluto's mass?	

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Module 11 Lesson 2 Guided Notes