

# Operations with Scientific Notation Word Problems



## Section A

The planet Mars is  $2.279 \times 10^8$  km from the sun.

i. Write this as an ordinary number. \_\_\_\_\_

The planet Pluto is  $5.92 \times 10^9$  km from the sun.

ii. Write this in number form. \_\_\_\_\_

iii. How much further away is Pluto than Mars from the sun. Without using a calculator, perform the calculations and write your answer in scientific notation. \_\_\_\_\_

## Section B

The cost of a certain commercial airplane was  $\$3.52 \times 10^6$  in 2007. The value of the airplane depreciated by 2% each year for the next five years and then by 7% each year subsequently. Writing your answer as an ordinary number, calculate:

i. The value of the commercial airplane in 2009. \_\_\_\_\_

ii. The value of the commercial airplane in 2015. \_\_\_\_\_

The airline purchased 1300 commercial airplanes in 2007 and sold some of them in 2009. By 2014 the total value of all commercial airplanes was  $\$1.825 \times 10^{11}$ .

iii. How many airplanes did they sell in 2009? \_\_\_\_\_

## Section C

Prokaryotic cells range from 1.2 to 10 micrometers.

1 micrometer =  $1 \times 10^{-6}$  meters. Calculate:

i. The size of the smallest prokaryotic cell. \_\_\_\_\_

ii. The size of the largest prokaryotic cell. \_\_\_\_\_

The measles virus has a length of 220 nanometers. 1 nanometer =  $1 \times 10^{-9}$  meters. E.coli bacteria has a length of 3.06 micrometers.

iii. How many times larger is the measles virus compared to E.coli bacteria? \_\_\_\_\_

iv. How long is the measles virus in micrometers? \_\_\_\_\_

# Scientific Notation Word Problems Grade 8

**Michael Smith**



## **Scientific Notation Word Problems Grade 8:**

*Word Problems, Grade 8* Spectrum,2013-12-02 Spectrum R Word Problems for grade 8 includes focused practice for essential math skills Skills include Real world applications Multi step word problems Whole numbers decimals and fractions Ratio and proportion Percents and interest Metric and customary measurement Graphs probability and statistics Geometry Perimeter area and volume Algebra Spectrum R Word Problems workbooks supplement classroom work and proficiency test preparation The workbooks provide examples of how the math skills students learn in school apply to everyday life with challenging multi step word problems It features practice with word problems that are an essential part of the Common Core State Standards making it a perfect supplement at home or school *Mastering Grade 8 Math* Reza Nazari,2023-09-05 Stepping into the world of eighth grade mathematics can feel like plunging into a deep sea of numbers symbols and logic The journey of Mastering Grade 8 Math is akin to having an expert diver by your side guiding you through this complex world Key Features Thorough Exploration Delving into each topic with a laser focused approach Mastering Grade 8 Math leaves no stone unturned Why swim on the surface when there s a whole universe to explore deep below Diverse Range of Topics Just like a vast ocean houses diverse marine life this book encompasses a range of pivotal subjects Algebra Where the magic of letters and numbers intertwines Geometry Understanding the world through shapes and their intriguing properties Real world Applications Ever wondered how mathematics fits into the real world This book connects theoretical knowledge with practical applications making learning not only interesting but also relatable Think of it as understanding the physics behind diving before taking the plunge Interactive Engagement With a medley of puzzles and activities the book ensures that the reader isn t just a passive observer Instead they re invited to participate challenge and apply their understanding Detailed Solutions Every intricate problem has been dissected to offer step by step solutions It s akin to having a map that shows hidden underwater treasures Expert Guidance With pearls of wisdom from experienced educators students get more than just knowledge They gain insights strategies and an edge in their mathematical pursuits Content Overview Advanced Algebra The world of algebra is like diving into deep waters discovering the mysteries of linear equations functions and complex algebraic expressions Geometry Unraveled Shapes and figures come alive revealing the secrets of angles triangles and more It s the art of seeing the world from a mathematical lens Data and Statistics Dive into data analysis and explore the concepts that help make sense of large datasets It s like plotting the coordinates for a dive ensuring a safe and enlightening descent Probability and Logic Embarking on this journey feels like navigating the currents and tides of the ocean understanding the chances and making calculated decisions Mastering Grade 8 Math isn t just a book it s an odyssey through the fascinating world of eighth grade mathematics It s about acquiring knowledge honing skills and nurturing a love for the subject With this guide transitioning to the challenging terrains of high school math becomes not just feasible but enjoyable **Eureka Math Grade 8 Study Guide** Great Minds,2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that

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