**Unit 1: Expressions and Exponents**

**Learning Target 6 and 7: Compute with Scientific Notation**

**Page 63**



 **Evaluate** .  **Express the result in scientific notation.**



Associative Property

Divide 1.14 by 4.8. Use the Quotient of Powers law.

Simplify.

Rewrite in scientific notation.



 **Evaluate (1.03 × 109) – (4.7 × 107). Express the result in scientific notation.**

(1.03 × 109) − (4.7 × 107) = (103.0 × 107) − (4.7 × 107)

Write 1.03 – 109 as 103.0 × 107.

Distributive Property

Subtract 4.7 from 103.0

Rewrite in scientific notation.

 = (103.0 − 4.7) × 107

 = 98.3 × 107

 = 9.83 × 108