

2.4 Learning Opportunity

Integer Exponents and Scientific Notation



Name: _____

Simplify each of the following.

1) 10^2

2) 4^0

3) 4^{-3}

4) -4^4

5) $(-7)^2$

6) 5^3

7) 12^0

8) $12,302^1$

Write each number in standard notation.

9) 1.76×10^{-1}

10) 8.9×10^3

11) 6.2×10^{-2}

12) 5.8×10^4

13) 8.1×10^5

14) 8.1×10^{-5}

15) 3.8×10^{-4}

16) 2.03×10^{-3}

17) 5.0×10^3

Write each number in scientific notation

18) 376,000

19) 9,580,000

20) 650

21) 0.0107

22) 0.0002008

23) 0.00053

24) 250,800

25) 0.000094

26) 0.00086

27) Earth is about 93,000,000 miles from the Sun. Write this number in scientific notation.

28) The diameter of Earth is about 1.276×10^4 kilometers. The diameter of Venus is about 1.21×10^4 kilometers. Which planet has the greater diameter, Earth or Venus?