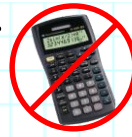


# 4A.4 Learning Opportunity

## 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)  $1.76 \times 10^{-1}$

10)  $8.9 \times 10^3$

11)  $6.2 \times 10^{-2}$

12)  $5.8 \times 10^4$

13)  $8.1 \times 10^5$

14)  $8.1 \times 10^{-5}$

Write each number in scientific notation

15) 376,000

16) 0.000503

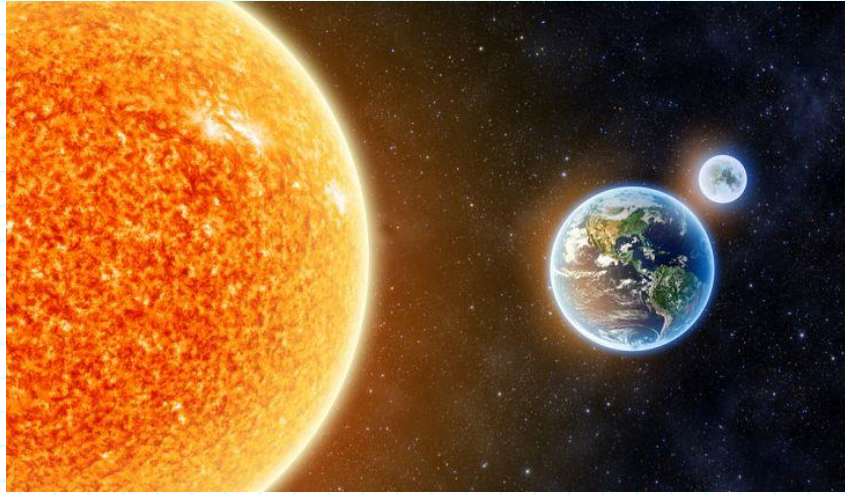
17) 650

18) 0.0107

19) 9,580,000

20) 0.0002008

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



22) The diameter of Earth is about  $1.276 \times 10^4$  kilometers. The diameter of Venus is about  $1.21 \times 10^4$  kilometers. Which planet has the greater diameter, Earth or Venus?