(Negative exponent and Scientific notation)

1. Write the following in standard form;

    a. 4^3 Answer:

    b. 3^4 Answer:

    c. 2^{-4} Answer:

2. Which pf the following is not equal to 10^{-2} ?

    a. 0.01

    b. $\frac{1}{10^2}$

    c. $\frac{1}{10^{-2}}$

    d. $\frac{1}{100}$

3 Write the exponential form given below in both standard and expanded

    form;

    $3 \times 10^3 + 5 \times 10^1 + 2 \times 10^{-2} + 7 \times 10^{-5}$

    Expanded form:

    Standard form:

4 Write the following numbers in scientific notation; (use ^ to show exponent:

    Example *Write* 10^3 *as* 10^3)

    a. 45768   Answer:

    b. 2,340,500,000   Answer:

    c. 0.000,079   Answer:

5   Write the following scientific notations in standard form;

a. 2.35×10^5 Answer:

b. 2.35×10^{-4} Answer:

6   The distance from Earth to sun is 1.4849×10^8km. The distance from Earth to Neptune is about 4.3694×10^9km.

a. Which is further from Earth, Sun or Neptune?

Answer:

b. By how many km more, is the Sun or Neptune from the Earth?

Answer:

7   The average mass of an ant is about 4×10^{-3}gram. And the average mass of a worker bee is about 0.11gram.

a. Which animal weighs more, an ant or worker bees?

Answer:

b. By how much more?

Answer: