Name _____ Exponent Review Assignment #1

Math 8   _____ out of 6 points total

Directions: Use your exponent note sheet to finish this assignment. Be sure to **show all work**.

1) Simplify $(-2)^2 \bullet (-2)^{-8}$

   A) 4^{-6} C) $(-2)^{-16}$

   B) $\dfrac{1}{64}$ D)   64

2) Which is equivalent to $(4^2)^{-3}$

   A) $4^{-6} \bullet 4^1$ C) 4^1

   B) $\dfrac{1}{4}$ D) $\dfrac{1}{4^6}$

3) Which is equivalent to $\left(\dfrac{1}{2}\right)^{-3}$

   A)   8   C) $\dfrac{1}{8}$

   B) $\dfrac{1}{6}$ D) $-\dfrac{1}{8}$

Back →

4) Which expression is equivalent to $8^5 \times 8^4$?

A) 8^{20}

C) 8

B) $8^{13} \div 8^4$

D) $8^6 \div 8^3$

5) The of population of CITY A is 4.8×10^7 while the population of CITY B is 1.2×10^4

Part A How many times greater is the population of CITY A than the population of CITY B?

Show your work

Answer in standard form _____

Part B How many more people does CITY A have compared to CITY B?

Show your work

Answer in standard form _____

Answer in scientific notation _____