

Name

Spiral Review 8

Directions: Show your work for credit. Use your notes and textbook for support

1. Explain how to use the properties of exponents to write an equivalent expression for 6^{2+y} .

- Multiply 2 powers, both with a base of 6. One has an exponent of 2, and the other y .
- Add 2 powers, both with a base of 6. One has an exponent of 2, and the other y .
- Multiply 2 times a power with a base of 6 and exponent of y .
- Add y to 6 squared.

2. In 2010, the population of the Dominican Republic was about 9.884×10^6 . The population of Haiti was about 1.009×10^7 . About how much more was the population of Haiti than the Dominican Republic?

Show your work

- | | |
|-----------------------|-----------------------|
| a. 2.06×10^5 | c. 2.06×10^8 |
| b. 2.06×10^6 | d. 2.06×10^9 |

3. What is 9.2568×10^{-3} written in standard notation?

Show your work

- 0.0092568
- 0.092568
- 0.92568
- 9256.8



4. Solve for x:

$$2(4x - 3) - 8 = 4 + 2x$$

Show your work

5. Is $\frac{3^{13}}{(3^5)^3}$ equal to 9? Explain why or why not.

Show your work
