1. Write as a fraction in simplest form: $0.\overline{57}$
2. Simplify using Exponent Laws; 'drop bars' for extra credit, and write all exponents positive.

   a. $8a^2b^3\left(-4a^3b^3\right)$ b. $\dfrac{-24a^2b}{18ab^5}$

3. Evaluate and express the result in Scientific Notation.

   a. $\left(9.75\times10^3\right)\left(8.4\times10^{-6}\right)$ b. $\left(7.2\bullet10^7\right)\left(1.82\bullet10^2\right)$ c. $\dfrac{6.256\bullet10^8}{6.8\bullet10^4}$ d. $\dfrac{2.888\bullet10^5}{7.22\bullet10^2}$

4. Evaluate and express the result in Scientific Notation

a. $\left(7.3\bullet10^5\right)+3{,}400{,}000$ b. $\left(1.78\bullet10^4\right)+\left(5.35\bullet10^3\right)$ c. $\left(1.03\bullet10^9\right)-\left(4.7\bullet10^7\right)$

d. $\left(8.4\bullet10^7\right)-\left(6.3\bullet10^6\right)$

5. Mr. Ford is shipping a care package to a former student. Mr. Ford chose a square box with the dimensions shown. What is the volume of the box expressed as a monomial?

6. There are about $2.5\bullet10^{10}$ red blood cells int the average adult. How many adults would it take to have a total of 1 googol ($1\bullet10^{100}$) red blood cells?

7. Solve the equations.

a. $q^2=\dfrac{81}{576}$ b. $a^3=-2.197$

8. Write the missing words *in order* on your answer page!

"A ratio of _____ integers?
Oh, no! You _____ write me!
My _____ does not _____,
Nor does it _____,
I am number _____,
Yes, I'm CRAZY!
Don't mess with ME!!!