**Tuesday: Write each fraction or mixed number as a decimal.**

1. $\frac{3}{5}$ = **2.** $\frac{5}{8}$ = **3.** $ \frac{9}{20}$ **= 4.** $-$8$\frac{11}{18}$ =

**5. POPULATION** Refer to the table at the right.

|  |
| --- |
| **Population of Florida by Race** |
| **Race** | **Fraction of****Total Population** |
| Asian | $\frac{1}{50}$  |
| African American | $\frac{4}{25}$  |
| Hispanic | $\frac{1}{5}$  |

 **a.** Express the fraction for Asian as a decimal.

 **b.** Find the decimal equivalent for the fraction of the population that is African American.

 **c.** Write the fraction for Hispanic as a decimal.

**Write each expression using exponents.**

**6.** 2 • *d* • 5 • *d* • *d* • 5 = **7.** *x* • $\frac{1}{8}$ • *x* • *x* • *y* • $\frac{1}{8}$ • *y* • *x* =

**Evaluate each expression.**

**8.** $(-8)^{4}$ = **9.** $(-2)^{5}-(-2)^{4}$ =

**10. ISLANDS** Florida has about $2^{2}$ • $3^{2}$ • $5^{3}$islands (over 10 acres). About how many islands is this?

**Wednesday: Simplify. Express using exponents. (There are more problems on the back!)**

**1.** $k^{8}•k$ = **2.** $4r^{4}(-4r^{3})$ **= 3.** $(10t^{4}v^{5})(3t^{2}v^{5})$ **=**

**4.** $\frac{ 3^{8}}{3}$ **= 5.** $\frac{24a^{6}}{6a^{5}}$ = 6**.** $ \frac{95^{21}}{95^{18}}$ =

**7.** A company has set aside $10^{7}$ dollars for annual employee bonuses. If the company has $10^{4}$ employees and the
 money is divided equally them, how much will each employee receive?

**8.** $(6t^{5})^{2}$ = **9.** $(4w^{9})^{4}$ = **10.** $(12k^{6})^{3}$ =

**Thursday: Simplify. Express using exponents.**

**1.** $(-4b^{6})(-b^{2}c^{3})$ **2.** Simplify $\frac{5^{5} • 6^{3} • 8^{10}}{5^{3} • 6 • 8^{9}}$ **3.** $(15m^{8})^{3}$ **4.** $(-4r^{6}s^{15})^{4}$ =

**Write the following using positive exponents. 5.** $8^{-5}$ = **6.** $z^{-2}$ =

**Evaluate the expression. 7.** $(-7)^{-9}$ = **Write the following using negative exponents. 8.** $\frac{1}{e^{5}}$ =

**Simplify. Express using positive exponents.**

**9.** $\frac{6^{5}}{6^{2}}$ = **10.** $\frac{k^{-4}}{k^{-6}}$ =

**11. MEASUREMENT** 1 milligram is equal to $10^{-3}$ grams. Write this number using a positive exponent.