Estimating Square Roots Assignment

1) Use benchmarks to estimate the following. Show your work.

a) $\sqrt{7}$ b) $\sqrt{14}$ c) $\sqrt{39}$

d) $\sqrt{57}$ e) $\sqrt{79.5}$ f) $\sqrt{96}$

2) Use benchmarks to estimate the following. Show your work.

a) $\sqrt{0.08}$ b) $\sqrt{0.45}$ c) $\sqrt{0.6}$

3) Estimate. Show your work.

a) $\sqrt{\dfrac{3}{23}}$ b) $\sqrt{\dfrac{1}{50}}$

4) $2^3 = 8$ (two cubed equals eight), so $\sqrt[3]{8} = 2$ (the **cube root** of eight is two).

a) Create a parallel statement for 3^3. Confirm on your calculator.

b) Create a parallel statement for 4^3. Confirm on your calculator.

5) $2^4 = 16$, so $\sqrt[4]{16} = 2$ (the **4th root** of 16 is two).

a) Create a parallel statement for 3^4. Confirm on your calculator.

b) Create a parallel statement for 4^4. Confirm on your calculator.