DESCRIPTIVE STATISTICS: PRACTICE 2

STUDENT LEARNING OUTCOMES:

- **THE STUDENT WILL CALCULATE MEASURES OF THE CENTER OF THE DATA.**
- **THE STUDENT WILL CALCULATE THE SPREAD OF THE DATA.**

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The population parameters below describe the full-time equivalent number of students (FTES) each year at Lake Tahoe Community College from 1976-77 through 2004-2005. *(Source: Graphically Speaking by Bill King, LTCC Institutional Research, December 2005)*.

Use these values to answer the following questions:

- μ = 1000 FTES
- Median – 1014 FTES
- σ = 474 FTES
- First quartile = 528.5 FTES
- Third quartile = 1447.5 FTES
- n = 29 years

CALCULATE THE VALUES

EXERCISE 1

A sample of 11 years is taken. About how many are expected to have a FTES of 1014 or above? Explain how you determined your answer.

EXERCISE 2

75% of all years have a FTES:

a. At or above
b. At or below

EXERCISE 3

THE POPULATION STANDARD DEVIATION =

EXERCISE 4

WHAT PERCENT OF THE FTES WERE FROM 528.5 TO 1447.5? HOW DO YOU KNOW?

EXERCISE 5

What is the IQR? What does the IQR represent?

EXERCISE 6

How many standard deviations away from the mean is the median?