

**SECOND SENIOR**  
**SPECIAL SUBJECT: MATH**  
**III TERM - TEST**

**Archimedes**

**1. Decide if the following sentences are true (T) or false (F). Justify the ones that are false.**

- a. The density of pure gold is different from the density of gold mixed with some other metal.
- b. To calculate density you only need to know the mass of something.
- c. In order to calculate the crown's density, he only needed to find its volume.
- d. Archimedes yelled "Eureka!" when he solved the puzzle.
- e. Archimedes didn't know the mass of the crown.
- f. The goldsmith was probably executed or severely punished.

**2. Answer the questions.**

- a. What did Archimedes discover when he dunked the crown in the tub?

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- a. How can people calculate the volume of oddly shaped objects?

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