

PERCENT DEVIATION (A.K.A. Percent Error)

Name _____

NOTE: see the front page of the ESRT for the formulas when taking a quiz or test.

DIRECTIONS: calculate percentage error for the following, rounding off to the nearest whole percent.

1. A student calculates the volume of a cube to be 27ml but the cube is known to be 25ml. How much was the student off by?
2. The density of water is 1.0 g/ml. A student calculates the density of water as 0.96 g/ml. What's the percent error?
3. A student determines that the density of a rock is 6.2 g/ml. The accepted value for the density of this rock is 5.6 g/ml. What's the % error?
4. From an experiment, a student states that the boiling point of water is 97°C . What's the % deviation?
5. A student estimates the mass of her teacher to be 55 kg. The teacher's actual mass is 60 kg. What is the student's percent deviation?