

Name: _____ Period: _____ Date: _____

WS Measurement & Calculations

- ___ 1) A measurement is best defined as
- A) an inference made by using the human senses
 - B) a group of inferred properties
 - C) a direct comparison with a known standard
 - D) an interpretation based on theory
- ___ 2) The use of a triple-beam balance to determine the mass of a rock is an example of measuring by using
- A) all of the five senses
 - B) a combination of dimensional quantities
 - C) inferences and interpretations
 - D) a direct comparison with a standard
- ___ 3) The circumference of the Earth is about 4.0×10^4 kilometers. This value is equal to
- A) 400 km
 - B) 40,000 km
 - C) 4,000 km
 - D) 400,000 km
- ___ 4) The basic measurements used to describe stream velocity are
- A) mass and volume
 - B) length and shape
 - C) time and direction
 - D) distance and time
- ___ 5) A centimeter is 0.01 meter. This measurement can also be expressed as
- A) 1×10^2 m
 - B) 1×10^{-1} m
 - C) 1×10^0 m
 - D) 1×10^{-2} m
- ___ 6) What is the diameter of the Earth? [Refer to the *Earth Science Reference Tables*.]
- A) 12,740 km
 - B) 127,400 km
 - C) 6,370 km
 - D) 63,700 km
- ___ 7) A scientist who is studying a stream would have the most difficulty determining the stream's
- A) transported sediment size
 - B) temperature
 - C) age in years
 - D) velocity