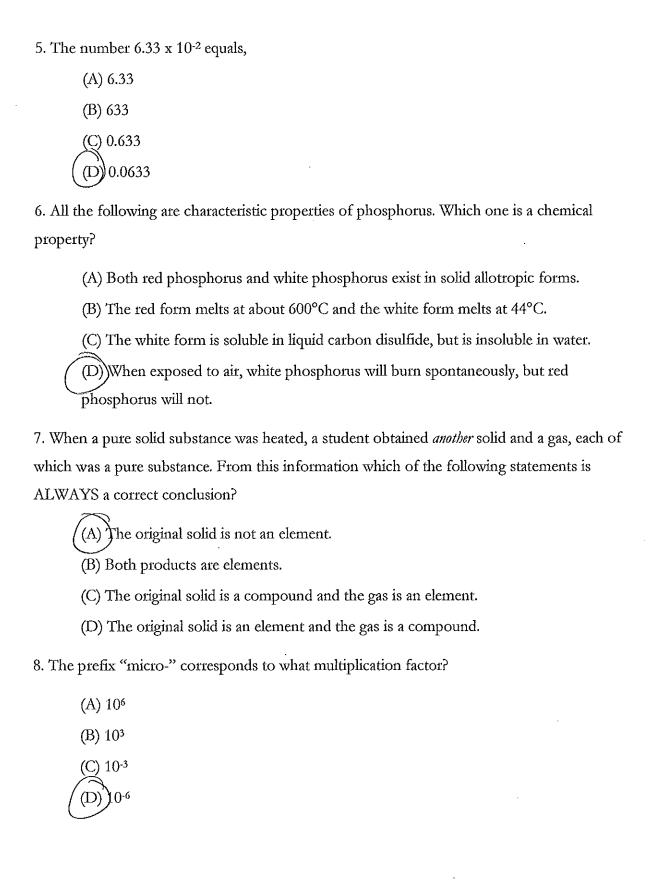


## AP Chemistry 2016-17

## Unit 1: Matter and Measurement Quiz

## Multiple Choice Questions - 15 minutes

- 1. Which measurement below is NOT written with FOUR significant digits?
  - (A) 2.000 cm
  - (B)0.0003 L
  - (C) 5500. g
  - (D) 12.70 mm
- 2. A metal sample weighing 30.9232 grams was added to a graduated cylinder containing 23.26 mL of water. The volume of water plus the sample was 24.85 mL. Which setup will result in the density of this metal?
  - (A) 30.9232 x (24.85-23.26)
  - (B) (24.85 23.26) / 30.9232
  - (C)30.9232 / (24.85 23.26)
  - (D) 30.9232 x (23.26/24.85)
- 3. The number of significant digits in 0.30500 is
  - (A) 1
  - (B) 4
  - (C) 2
  - (D)5
- 4. A student does a calculation using her calculator and the number 280.27163 is shown on the display. If she her answer only allows THREE significant figures, how should she show the final answer?
  - (A) 280
  - (B) 2.80 x 10<sup>-2</sup>
  - (C) 280.3
  - (D)  $2.80 \times 10^2$



- 9. A solution of sugar water may be defined as a
  - (A) heterogeneous mixture
  - (B) homogeneous mixture
  - (C) heterogeneous compound
  - (D) homogeneous compound
- 10. The marks on the following target represent someone who is:
  - (A) precise, but not accurate
  - (B) accurate, but not precise
  - (C) both accurate and precise
  - (D) neither accurate, nor precise



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