

Name

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) In the following list, only \_\_\_\_\_ is not an example of matter.  
 A) dust  
 B) light  
 C) elemental phosphorus  
 D) planets  
 E) table salt
- 2) The density of silver is  $10.5 \text{ g/cm}^3$ . What volume ( $\text{cm}^3$ ) would be occupied by a piece of silver with a mass of  $61.3 \text{ g}$ ?  
 A) 0.171                      B) 644                      C) 5.84                      D) 0.00155                      E) 10.5
- 3) There are \_\_\_\_\_ ng in a pg.  
 A) 1000                      B) 0.01                      C) 0.001                      D) 10                      E) 100
- 4) The quantity \_\_\_\_\_ m is the same as 3 km.  
 A) 300                      B) 30                      C) 0.003                      D) 0.03                      E) 3000
- 5)  $\frac{(0.002843)(12.80184)}{0.00032} =$   
 A) 113.736                      B)  $1.1 \times 10^2$                       C) 113.7                      D) 113.73635                      E) 113.74
- 6) One side of a cube measures 1.55 m. What is the volume of this cube in  $\text{cm}^3$ ?  
 A) 3.72                      B) 2.40                      C)  $3.72 \times 10^6$                       D)  $2.40 \times 10^4$                       E) 155
- 7) Which of the following liquids has the greatest density?  
 A)  $0.022 \text{ cm}^3$  with a mass of 0.10 g  
 B)  $54 \text{ cm}^3$  with a mass of 45 g  
 C)  $3.5 \text{ cm}^3$  with a mass of 10 g  
 D)  $210 \text{ cm}^3$  with a mass of 12 g  
 E)  $13 \text{ cm}^3$  with a mass of 23 g
- 8) The symbol for the element phosphorous is  
 A) P                      B) Po                      C) Ag                      D) K                      E) Ph
- 9) What is the density (in  $\text{g/cm}^3$ ) of a gold nugget that has a volume of  $1.68 \text{ cm}^3$  and a mass of  $32.4 \text{ g}$ ?  
 A) 19.3                      B) 0.0184                      C) 54.4                      D) 0.0519                      E) 32.4
- 10) 1 milligram = \_\_\_\_\_ micrograms  
 A) 0.01                      B) 10                      C) 0.1                      D) 1,000                      E) 0.001

11) What is the volume of a 12.2 g piece of metal with a density of 9.43 g/ cm<sup>3</sup>?

- A) 115 cm<sup>3</sup>
- B) 1.29 cm<sup>3</sup>
- C) 12.2 cm<sup>3</sup>
- D) 0.773 cm<sup>3</sup>
- E) none of the above

Answer Key

Testname: SI AND DENSITY.T5T

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) B
- 2) C
- 3) C
- 4) E
- 5) B
- 6) C
- 7) A
- 8) A
- 9) A
- 10) D
- 11) B