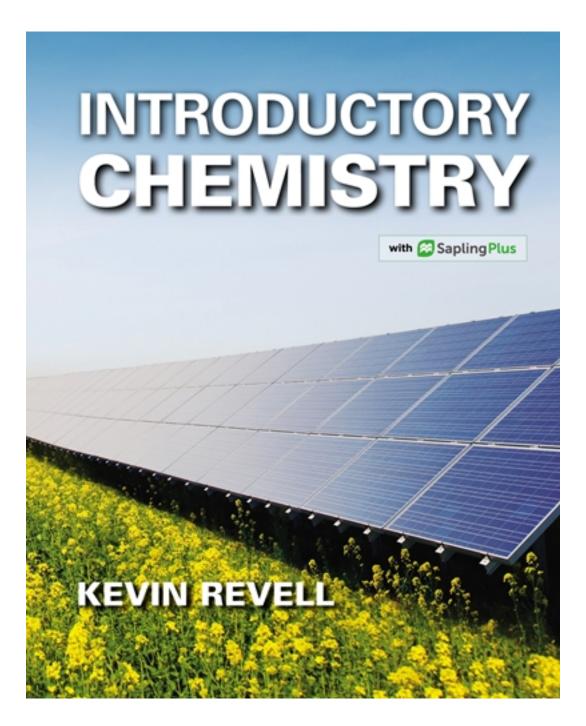
Test Bank for Introductory Chemistry 1st Edition by Revell

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Test Bank

Name: Class: Date:

Chapter 2

- 1. Which equation is equal to 0.00539?
 - a. 5.39×10^3
 - b. 5.39×10^2
 - c. 5.39×10^{-3}
 - d. 5.39×10^{-2}

ANSWER: c

- 2. Which equation is equal to 623?
 - a. 6.23×10^3
 - b. 6.23×10^2
 - c. 6.23×10^{-3}
 - d. 6.23×10^{-2}

ANSWER: b

- 3. In the SI system of measurement, the unit of mass is the
 - a. kilogram.
 - b. meter.
 - c. liter.
 - d. yard.

ANSWER: a

4. The distribution of hits on the bull's-eye is described as



- a. both accurate and precise.
- b. neither accurate nor precise.
- c. accurate but not precise.
- d. precise but not accurate.

ANSWER: d

- 5. A student measures the volume of a solution to be 0.03010 L. How many significant digits are in this measurement?
 - a. two
 - b. three
 - c. four
 - d. five

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ANSWER: c				
6. A student measures the volume of measurement?	f a solution to be 0.00370 L. How many	significant digits are in this		
a. two				
b. three				
c. four				
d. five				
ANSWER: b				
to the correct number of significant of	ams and a volume of 14.4 mL. What is the digits?	ne density of this solution, reported		
a. 1.04 g/mL				
b. 1.044 g/mL				
c. 0.958 g/mL				
d. 0.9581 g/mL				
ANSWER: a				
8. A sample of metal has a mass of (a. 0.0000049 mg	0.0049 grams. What is this mass in millig	grams?		
b. 4.9 mg				
c. 490 mg				
d. $4.9 \times 10^{12} \text{ mg}$				
ANSWER: b				
9. A sample of metal has a mass of (a. 0.00000793 g	0.0793 kilograms. What is this mass in gr	cams?		
b. 793 g				
c. 79.3 g				
d. 7.93×10^{12} g				
ANSWER: c				
10. Which amount is equal to 1 mL?				
a. 0.01 L				
b. 1000 cm ³				
c. 1 dm ³				
1 (1111				

ANSWER: d

d. 1 cm^3

11. Which amount is equal to 1 liter?

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a. 0.01 L		
b. 1 dm ³		
c. 1 cm ³		
d. 0.1 m^3		
ANSWER: b		
12. A candle made of a certain wax bler	nd burns at a rate of 34.0 mg/min. W	hat is the value of this burn rate if
expressed in grams/hour? a. 2.04 g/hr		
b. 567 g/hr		
c. 1,764 g/hr		
d. 2,040 g/hr		
ANSWER: a		
13. A car is moving at 60.0 mi/hr. How	many feet/second is the driver travel	ling? (1 mile – 5 280 feet)
a. 8.80 ft/sec	many rect/second is the driver traver	ing: (1 inic = 3,200 feet)
b. 88.0 ft/sec		
c. 880 ft/sec		
d. 95.2 ft/sec		
ANSWER: b		
14. The density of bromine is 3.12 g/mI	L. What is the mass of 155 mL of bro	omine?
a. 0.0201 g		
b. 38.2 g		
c. 49.7 g		
d. 484 g		
ANSWER: d		
15. A piece of driftwood has a density ostatement is accurate?	of 0.76 g/cm ³ , while a piece of alloy 1	has a density of 6.7 g/cm ³ . Which
a. Both the driftwood and the alloy	will float on pure water.	
b. Neither the driftwood nor the allo	y will float on pure water.	
c. The driftwood will sink when pla	ced on pure water, but the alloy will	float.
d. The driftwood will float on pure	water, but the alloy will sink.	
ANSWER: d		
16. A block of titanium metal has a mas	s of 104.3 g. Given titanium's densit	y (4.51 g/cm ³), what volume does
this block of titanium occupy in liters?		
a. 23.2 L		
b 0.0231 L		

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Chapter 2

- c. 232 L
- d. 0.00231 L

ANSWER: b

- 17. A block of titanium metal has a mass of 1.22 kg. Given titanium's density (7.87 g/cm³), what volume does this block of titanium occupy in liters?
 - a. 0.155 L
 - b. 155 L
 - c. 1.55 L
 - d. 1.55×10^{-4} L.

ANSWER: a

- 18. Unknown sample #1 has a mass of 0.500 g and a volume of 0.750 mL. Unknown sample #2 has a mass of 12.1 g and a volume of 452 mL. Which statement is accurate concerning the two samples?
 - a. Unknown sample #1 has a density of 1.50 g/cm³.
 - b. Unknown sample #2 has a density of 37.4 g/cm³.
 - c. Unknown sample #1 has the greater density—0.667 g/cm³
 - d. Unknown sample #2 has the greater density—0.0268 g/cm³

ANSWER: c

- 19. A 100.0-mL sample of lead has a much greater mass than a 100.0-mL sample of quartz. Select the accurate statement.
 - a. The lead sample also has the greater density.
 - b. The quartz sample has the greater density.
 - c. Both the lead sample and the quartz sample have the same density.
 - d. There is not enough information to determine which sample has the greater density.

ANSWER: a

- 20. Which element will float on pure water?
 - a. iron (density = 7.87 g/cm^3)
 - b. copper (density = 8.96 g/cm^3)
 - c. gold (density = 19.31 g/cm^3)
 - d. None of these elements will float on pure water.

ANSWER: d

- 21. A solution has a mass of 17.41 grams and a volume of 14.4 mL. What is the density of this solution, reported to the correct number of significant digits?
 - a. 1.21 g/mL
 - b. 0.827 g/mL
 - c. 250.7 g/mL

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d. 1.209 g/mL		
ANSWER: a		
22. On the Celsius temperature sca	le, the boiling point of water is	
a. 0 °C		
b. 32 °C		
c. 100 °C		
d. 212 °C		
ANSWER: c		
23. Which statement is accurate co	ncerning temperature?	
a. The freezing point of water	is 0 °F.	
b. The boiling point of water is	s 32 °C.	
c. One degree Celsius is a grea	ter unit than 1 degree Fahrenheit.	
d. One degree Fahrenheit is a g	greater unit than 1 degree Celsius.	
ANSWER: c		
24. 285.25 K is also °C.		
a. –261.10		
b. 12.10		
c. 53.69		
d. 100		
ANSWER: b		
25. Which temperature is the HOT	TEST?	
a. 516 K		
b. 234 °C		
c. 475 °F		
d. None—all of these temperat	ures are the same.	
ANSWER: c		
26. Which temperature is the COL	DEST?	
a. 116 K		
b. −20 °C		
c. –105 °F		
d. None—all of these temperat	ures are the same.	
ANSWER: a		
27. 285.2 K is also °F.		
a. –261.1		
b. 12.05		

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c. 53.69		
d. 100		
ANSWER: c		

- 28. Select the temperature scale that scientists use for very low temperatures as well as to predict the way gases behave.
 - a. Celsius
 - b. Fahrenheit
 - c. Kelvin
 - d. All of these temperature scales are used for these purposes.

ANSWER: c

- 29. Select the temperature scale that MOST of the world uses.
 - a. Celsius
 - b. Fahrenheit
 - c. Kelvin
 - d. All of these temperature scales are used equally around the world.

ANSWER: a

- 30. Normal average normal body temperature is $98.6\,^{\circ}F$. Three children have their temperature taken at a doctor's office. The first child has a temperature of $310\,^{\circ}K$. The second child has a body temperature of $98.5\,^{\circ}F$. The third child has a body temperature of $38.3\,^{\circ}C$. Which child is running a fever (has a temperature greater than $100\,^{\circ}F$)?
 - a. the first child
 - b. the second child
 - c. the third child
 - d. All of the children are running a fever.

ANSWER: c