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Introduction to General, Organic & Biological Chemistry, 12e (Timberlake) Chapter 2 Chemistry and Measurement
2.1 Multiple-Choice Questions
1) The amount of space occupied by a substance is its A) mass B) density C) weight D) length E) volume Answer: E Page Ref: 2.1 Learning Obj.: 2.1
Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
2) Which of the following is the basic unit of volume in the metric system? A) liter B) kilogram C) meter D) centimeter E) gram Answer: A Page Ref: 2.1 Learning Obj.: 2.1
Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
3) Which of the following is a measurement of mass in the metric system? A) milliliter

Obj.: 2.1

B) centimeter C) kilogram D) Celsius E) meter Answer: C Page Ref: 2.1 Learning Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

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4) A value of 25 °C is a measurement of A) length B) volume C) temperature D) mass E) density Answer: C Page Ref: 2.1 Learning Obj.: 2.1 Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
5) A value of 36 mL is a measure of A) density B) mass C) temperature D) volume E) length Answer: D Page Ref: 2.1 Learning Obj.: 2.1
Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
6) A value of 345 mm is a measure of A) density B) mass C) temperature D) volume E) length Answer: E Page Ref: 2.1 Learning Obj.: 2.1
Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
7) The measurement of the gravitational pull on an object is its A) volume B) weight C) mass D) length E) size Answer: B Page Ref: 2.1 Learning Obj.: 2.1
Global Outcomes: G7 Demonstrate the ability to make connections between concepts across

chemistry.

8) Which of the following measurements has three significant

figures? A) 0.005 m B) 510 m C) 0.510

m D) 0.051 m E)

5100 m Answer: C

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

9) Which of the following numbers contains the designated correct number of significant figures?

A) 0.04300 5 significant figures

B) 0.00302 2 significant figures C)

156 000 3 significant figures

D) 1.042 significant figures

E) 3.0650 4 significant figures

Answer: C Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

10) The number of significant figures in the measurement of 45.030 mm is . .

A) none

B) three

C) four

D) five

E) six Answer: D Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

11) How many significant figures are in the number

0.00208? A) six

B) two C) three D)

four E) five

Answer: C Page Ref: 2.2 Learning

Obj.: 2.2

- 12) Which of the following examples illustrates a number that is correctly rounded to three significant figures?
- A) 4.05438 g to 4.054 g
- B) 0.03954 g to 0.040 g
- C) 103.692 g to 103.7 g
- D) 109 526 g to 109 500 g
- E) 20.0332 g to 20.0 g

Answer: E Page Ref: 2.3

Learning Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

13) A calculator answer of 423.6059 must be rounded off to three significant figures. What answer is reported?

A) 423 B) 424 C)

1.7420 D) 423.6

E) 423.7 Answer:

B Page Ref: 2.3

Learning Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

14) Which of the answers for the following conversions contains the correct number of significant figures?

A) 2.543 m
$$\times \frac{39.4 \text{ in.}}{1 \text{ m}} = 100.1942 \text{ in.}$$

B)2L×
$$\frac{1.06 \text{ qt}}{1 \text{ L}} = 2.12 \text{ qt}$$

C) 24.95 min
$$\times \frac{1 \text{ hr}}{60 \text{ min}} = 0.4158 \text{ hr}$$

D) 12.0 ft
$$\times \frac{12 \text{ in.}}{1 \text{ ft}} \times \frac{2.54 \text{ cm}}{1 \text{ in.}} = 370 \text{ cm}$$

E)
$$24.0 \text{ kg} \times \frac{1 \text{ lb}}{2.20 \text{ kg}} = 11 \text{ lb}$$

Answer: C

Page Ref: 2.3

Learning Obj.: 2.3

15) What is the correct answer for the calculation of a volume (in mL) with measured

numbers
$$\frac{28.38}{16 \times 8.02}$$
?

A) 0.22 mL

- B) 0.223 mL
- C) 57 mL
- D) 14 mL
- E) 14.3 mL

Answer: A Page Ref: 2.3 Learning

Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

16) When 2610 + 11.7 + 0.22 are added, the answer to the correct number of decimal places is

___. A)

2621.92 B) 2621.9

C) 2621 D) 2620

E) 2600 Answer:

D Page Ref: 2.3 Learning Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

17) What is the answer, with the correct number of decimal places, for this problem?

$$4.392 \text{ g} + 102.40 \text{ g} + 2.51 \text{ g} =$$

- A) 109.302 g
- B) 109 g
- C) 109.3 g
- D) 109.30 g
- E) 110 g

Answer: D Page Ref: 2.3

Learning Obj.: 2.3

18) The correct answer for the addition of 7.5 g + 2.26 g + 1.311 g + 2 g is

____. A) 13.071 g

B) 13 g C) 13.0 g

D) 10 g E) 13.1 g

Answer: B Page Ref: 2.3 Learning

Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

19) In which of the following is the metric unit paired with its correct abbreviation?

- A) microgram / mg
- B) milliliter / mL
- C) centimeter / km
- D) kilogram / cg
- E) gram / gm

Answer: B Page

Ref: 2.4 Learning

Obj.: 2.4

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

20) Which of the following is the largest unit?

- A) millimeter
- B) micrometer
- C) meter
- D) decimeter E)

kilometer Answer:

E Page Ref: 2.4

Learning Obj.: 2.4

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

21) What is the metric relationship between grams and micrograms?

- A) $1 g = 100 \mu g$
- B) $1 g = 1 000 000 \mu g$
- C) $1 g = 0.000 001 \mu g$
- D) $1 g = 1000 \mu g$
- E) $1 g = 0.001 \mu g$

Answer: B

Page Ref: 2.4

Learning Obj.: 2.4

22) Which of the following is the smallest unit? A) gram B) milligram C) kilogram D) decigram E) microgram Answer: E Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
23) The cubic centimeter (c ^{m3} or cc) has the same volume as a A) cubic inch B) cubic liter C) milliliter D) centimeter E) cubic decimeter Answer: C Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
24) What is the conversion factor for the relationship between millimeters and centimeters? A) 1 mm/1 cm B) 10 mm/1 cm C) 1 cm/1 mm D) 100 mm/1 cm E) 10 cm/1 mm Answer: B Page Ref: 2.5 Learning Obj.: 2.5
Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
25) Which of the following conversion factors is a measured number? A) 10 cm/dm B) 12 in/ft C) 16 oz/lb D) 25 miles/gallon E) 12 eggs/dozen Answer: D Page Ref: 2.5 Learning Obi: 2.5

30) Which of the following setups would convert centimeters to feet?

A) cm
$$\times \frac{2.54 \text{ in.}}{1 \text{ cm}} \times \frac{1 \text{ ft}}{12 \text{ in.}}$$

B) cm
$$\times \frac{2.54 \text{ cm}}{1 \text{ in.}} \times \frac{12 \text{ in.}}{1 \text{ ft}}$$

C) cm
$$\times \frac{1 \text{ in.}}{2.54 \text{ cm}} \times \frac{1 \text{ ft}}{12 \text{ in.}}$$

D) cm
$$\times \frac{1 \text{ in.}}{2.54 \text{ cm}} \times \frac{12 \text{ in.}}{1 \text{ ft}}$$

E) cm
$$\times \frac{2.54 \text{ cm}}{1 \text{ in.}} \times \frac{1 \text{ ft}}{12 \text{ in.}}$$

Answer: C Page Ref: 2.6

Learning Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

31) How many pounds are in 3.5 kg?

A) 7.7 lb

B) 1.59 lb C)

0.629 lb D) 1.6 lb

E) 7.70 lb Answer:

A Page Ref: 2.6

Learning Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

32) How many liters of soft drink are there in 5.25 qt?

A) 4950 L

B) 55.7 L

C) 4.95 L

D) 5.57 L

E) 5.0 L

Answer: C

Page Ref: 2.6

Learning Obj.: 2.6

- 33) 5.21 cm is the same length as _____.
 A) 0.0521 m
 B) 52.1 dm C)
 5.21 mm D)
 0.00521 km E)
 5210 m Answer: A
- Page Ref: 2.6 Learning Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

- 34) How many centimeters are there in 57.0 in.?
- A) 22 cm
- B) 0.0445 cm
- C) 145 cm
- D) 22.4 cm
- E) 140 cm

Answer: C Page Ref: 2.6 Learning

Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

- 35) What is 6.5 m converted to inches?
- A) 1700 in
- B) 1651 in C) 39
- in D) 260 in E)
- 255.9 in Answer:
- D Page Ref: 2.6 Learning Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

- 36) How many kilograms are in 30.4 lb?
- A) 13.8 kg
- B) 14 kg
- C) 67 kg
- D) 66.88 kg
- E) 66.9 kg

Answer: A Page Ref: 2.6 Learning

Obj.: 2.6

37) A dose of aspirin of 5.0 mg per kilogram of body weight has been prescribed to reduce the fever of an infant weighing 8.5 pounds. The number of milligrams of aspirin that should be administered is

A) 19 mg B) 53

mg C) 1.6 mg D)

5.0 mg E) 0.59 mg

Answer: A Page Ref: 2.6 Learning

Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

38) A doctor's order is 0.125 g of ampicillin. The liquid suspension on hand contains 250 mg/5.0 mL. How many milliliters of the suspension are required?

A) 0.0025 mL B)

3.0 mL C) 2.5 mL

D) 6.3 mL E)

0.0063 mL

Answer: C Page

Ref: 2.6 Learning

Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

39) Which of the following measurements are not equivalent?

A) 25 mg = 0.025 g

B) 183 L = 0.183 kL

C) 150 ms = 0.150 sD) 84 cm = 8.4 mm

E) 24 dL = 2.4 L

Answer: D Page Ref: 2.6 Learning

Obj.: 2.6

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

40) Which one of the following substances will float in gasoline, which has a density of 0.74 g/mL? The density of each substance is shown in parentheses.

A) table salt (D = 2.16 g/mL)

B) balsa wood (D = 0.16 g/mL)

C) sugar (D = 1.59 g/mL)

D) aluminum (D = 2.70 g/mL)

E) mercury (D = 13.6 g/mL)

Answer: B Page Ref: 2.7 Learning Obj.: 2.7

41) What is the mass of 2.00 L of an intravenous glucose solution with a density of 1.15

g/mL? A) 0.0230 kg

B) 2.30 kg C) 1.15

kg D) 0.0150 kg

E) 0.575 kg

Answer: B Page Ref: 2.7 Learning

Obj.: 2.7

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

42) Mercury has a specific gravity of 13.6. How many milliliters of mercury have a mass of 0.35 kg?

A) 0.0257

mL B) 0.026

mL C) 25.7

mLD) 26 mL

E) 4760 mL

Answer: D Page Ref: 2.7 Learning

Obj.: 2.7

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

43) What is the density of a substance with a mass of 45.00 g and a volume of 26.4 mL?

A) 1.70 g/mL

B) 1.7 g/mL

C) 0.59 g/mL

D) 0.587 g/mL

E) 45.0 g/mL

Answer: A Page Ref: 2.7 Learning

Obj.: 2.7

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

44) What is the mass of 53 mL of ethanol, which has a density of 0.79

g/mL? A) 67.1 g

B) 41.9 g C) 42 g

D) 67 g E) 53 g

Answer: C Page

Ref: 2.7 Learning

Obj.: 2.7

45) A liquid has a volume of 34.6 mL and a mass of 46.0 g. What is the density of the liquid? A) 1.00 g/mL B) 1.33 g/mL C) 0.752 g/mL D) 1330 g/mL E) 0.663 g/mL Answer: B Page Ref: 2.7 Learning Obj.: 2.7 Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
46) The density of a solution is 1.18 g/mL. Its specific gravity is A) 11.8 B) 0.118 C) 0.847 D) 1.18 E) 1.2 Answer: D Page Ref: 2.7 Learning Obj.: 2.7
Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
47) Diamond has a density of 3.52 g/mL. What is the volume in cubic centimeters of a diamond with a mass of 15.1 g? A) 4.3 B) 4.29 C) 0.233 D) 53 E) 53.2 Answer: B Page Ref 3 2.7 Learning Obj.: 2.7
Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
48) The ratio of the mass of a substance to its volume is its A) specific gravity B) density C) buoyancy D) weight E) conversion factor Answer: B Page Ref: 2.7 Learning Obj.: 2.7 Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.
Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

49) A nugget of gold with a mass of 521 g is added to 50.0 mL of water. The water level rises to a volume of 77.0 mL. What is the density of the gold?

A) 10.4 g/mL B) 6.77 g/mL C) 1.00 g/mL D) 0.0518 g/mL E) 19.3 g/mL Answer: E Page Ref: 2.7 Learning Obj.: 2.7

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

50) A 50.0 mL urine sample has a mass of 50.7 g. The specific gravity of the urine is . .

A) 1.014 g/mL

B) 0.986 g/L

C) 1.01

D) 0.986 E) 50.7 Answer: C Page Ref: 2.7 Learning

Obj.: 2.7

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

2.2 Short Answer Questions

Round off each of the following to three significant figures.

1) 504.85 Answer: 505 Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

2) 8.3158 Answer: 8.32 Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

3) 25 225 Answer: 25 200 Page Ref: 2.2 Learning Obj.:

2.2

4) 6.3477×10^4 Answer: 6.35×10^4 Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

5) 399870

Answer: 4.00×10^5 Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

6) 58.5422

Answer: 58.5 Page Ref: 2.2 Learning

Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

7) 0.003 4088 Answer: 0.00341 Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

State the number of significant figures in each of the following measurements.

8) 0.705 m Answer: 3 Page Ref: 2.2 Learning

Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

9) 680 000 km Answer: 2 Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

10) 0.008090 cm Answer: 4 Page Ref: 2.2 Learning

Obj.: 2.2

11) 28.050 km

Answer: 5

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

12) 0.0005 L

Answer: 1 Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

13) 75.00 m

Answer: 4

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

14) 2.043×10^4 mm

Answer: 4

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

15) 6.1×10^{-5} mL

Answer: 2 Page

Ref: 2.2 Learning

Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

16) 9.00×10^6 g

Answer: 3

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

17) If there are 14 books on the shelf, 14 is a(n)

number. Answer: exact

Page Ref: 2.2

Learning Obj.: 2.2

2.3 True/False Questions

1) The basic unit of mass in the metric system is the pound.

Answer: FALSE Page Ref: 2.1 Learning Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across

chemistry.

2) The liter is a unit of volume in the metric system.

Answer: TRUE Page Ref: 2.1 Learning Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across

chemistry.

3) The number 0.0500 has four significant

figures. Answer: FALSE

Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

4) The number 650 000 has two significant figures.

Answer: TRUE Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

5) When the measured number 0.0090 is multiplied by the measured number 87.10, the answer has two significant figures.

Answer: TRUE Page Ref: 2.3 Learning Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

6) When the measured number 675 is added to the measured number 87.10, the answer should be rounded to the ones place.

Answer: TRUE Page Ref: 2.3 Learning Obj.: 2.3

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

7) A µg is larger than a mg.

Answer: FALSE Page Ref: 2.4 Learning Obj.: 2.4

8) There are 1000 µg in a mg.

Answer: TRUE Page Ref: 2.4 Learning Obj.: 2.4

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

9) A cubic centimeter is a unit of length.

Answer: FALSE Page Ref: 2.4 Learning Obj.: 2.4

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across

chemistry.

10) 1 kg equivalent to 1000 mg.

Answer: TRUE Page Ref: 2.5 Learning Obj.: 2.5

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

11) 1 mL is equivalent to 1000 L.

Answer: FALSE Page Ref: 2.5 Learning Obj.: 2.5

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

12) The density of water is 1 kg/mL.

Answer: FALSE Page Ref: 2.7 Learning Obj.: 2.7

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

13) Specific gravity has no units.

Answer: TRUE Page Ref: 2.7 Learning Obj.: 2.7

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across

chemistry.

2.4 Matching Questions

Match the type of measurement to the unit given below.

- A) mass
- B) volume
- C) temperature
- D) length
- E) density

1) milliliter Page

Ref: 2.1 Learning

Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

2) mm

Page Ref: 2.1

Learning Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

- 3) gram Page Ref:
- 2.1 Learning Obj.:

2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

4) 125 K

Page Ref: 2.1

Learning Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

5) kilometer Page

Ref: 2.1 Learning

Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

6) milligram

Page Ref: 2.1

Learning Obj.: 2.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

Answers: 1) B 2) D 3) A 4) C 5) D 6) A

Are the numbers in each of the following statements measured or exact?

- A) exact
- B) measured
- 7) In the U.S. system there are 12 inches in one foot.

Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

8) The patient's blood sugar level is 350 mg/dL.

Page Ref: 2.2 Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

9) There are 452 pages in a book.

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

10) The rabbit weighs 2.5 pounds.

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

11) 1L is equal to 1.06 quarts.

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

12) There are 100 capsules in the bottle.

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

13) The patient's temperature is 100.1 °F.

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

14) I lost 14 pounds on my diet last month.

Page Ref: 2.2

Learning Obj.: 2.2

Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.

Answers: 7) A 8) B 9) A 10) B 11) B 12) A 13) B 14) B

Select the correct prefix to complete the equality.
A) 10 B) 1000 C) 1 D) 100
15) 1 mL =L Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
16) 1 m =mm E) 0.001 Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
17) 1 cm = mm Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
18) 1 dL =mL Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
19) 1 mL =cm Page Ref: 2.4 Learning Obj.: 2.4 Global Outcomes: G4 Demonstrate the quantitative skills needed to succeed in chemistry.
20) 1 kg =g Page Ref: 2.4

Learning Obj.: 2.4

Answers: 15) E 16) B 17) A 18) D 19) C 20) B