Integrated Science 8th edition Tillery Test Bank

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Integrated Science 8th Edition by Tillery CH01

ANSWERS ARE LOCATED IN THE SECOND PART OF THIS DOCUMENT

TRUE/FALSE - Write 'T' if the statement is true and 'F' if the statement is false.

1) A referent is a familiar object one can use to describe a property of a different object.

1) _____

◎ true
◎ false

Question Details
Bloom's : 3. Apply
Section : 01.01
Topic : Objects and Properties
Accessibility : Keyboard Navigation
Chapter : 01

2) The property of mass is a measure of how heavy an object is.

2) _____

◎ true
◎ false

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

3) Pseudoscience fails to conform to repeated fair tests.

3) _____

◎ true
◎ false

Question Details
Bloom's : 2. Understand
Section : 01.08
Topic : Science, Nonscience, and Pseudoscience
Accessibility : Keyboard Navigation
Chapter : 01

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4) A 100 g piece of iron has twice the volume as a 50 g piece of iron.

4) _____

- ◎ true
- ◎ false

Question Details
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

5) The mass of 1000 cm^3 of water in a tall glass is a kilogram.

5) _____

- ◎ true
- ◎ false

Question Details
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

6) The density of a 100 g piece of iron is twice as great as the density of a 50 g piece of iron.

6) _____

- ◎ true
- ◎ false

Question Details
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

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7) A scientific law describes how certain parts of nature are consistently observed to act.

7) _____

◎ true
◎ false

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

8) The symbol $\propto$ has the meaning of "is proportional to."

8) _____

◎ true
◎ false

Question Details
Topic : Standard Units of Measurement
Section : 01.06
Bloom's : 1. Remember
Accessibility : Keyboard Navigation
Chapter : 01

9) In science, the word *theory* refers to a set of related hypotheses that have been shown to be correct by many experiments.

9) _____

◎ true
◎ false

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

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10) The symbol "Δ" is used to refer to an object's density.

10) _____

◎ true
◎ false

Question Details
Topic : Standard Units of Measurement
Section : 01.06
Bloom's : 1. Remember
Accessibility : Keyboard Navigation
Chapter : 01

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

11) Equations are shorthand statements used to

11) _____

A) describe a property.
B) define a concept.
C) describe how quantities change together.
D) All of the choices are correct.

Question Details
Topic : Standard Units of Measurement
Bloom's : 3. Apply
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

12) Measured properties that can have different values at different times are

12) _____

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A) the result of measurement errors.
B) impossible.
C) called variables.
D) called scientific flukes.

Question Details
Bloom's : 2. Understand
Topic : Standard Units of Measurement
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

13) If equation $V = tk$ is used to describe the relationship between how much fuel a gas tank can hold and the time required to fill it, the symbol "k"

13) _____

A) has units of min/gal.
B) is a variable.
C) is a proportionality constant.
D) depends on the length of time.

Question Details
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

14) When two variables increase or decrease together in the same ratio they

14) _____

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A) are in direct proportion.
B) are in inverse proportion.
C) can have numerical value only.
D) must have both value and units.

Question Details
Bloom's : 2. Understand
Topic : Standard Units of Measurement
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

15) Measurement is the process of comparing a _____ to a well-defined _____.

15) _____

A) finding; result
B) unit; referent
C) property; referent
D) result; variable

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

16) Which one of the following is ***not*** a fundamental property?

16) _____

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A) length
B) weight
C) time
D) mass

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

17) Suppose a cube of Jello is cut into two pieces. What property stays the same comparing the original piece with one of the new pieces?

17) _____

A) mass
B) volume
C) density
D) surface area

Question Details
Section : 01.04
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Accessibility : Keyboard Navigation
Chapter : 01

18) A scientific model can be

18) _____

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A) a smaller or larger scale representation of a larger system.
B) a computerized visualization showing how parts interact.
C) a mathematical relationship used to predict how a system will behave.
D) All of the choices are correct.

Question Details
Bloom's : 4. Analyze
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

19) Which measure in the metric system is defined by using an object for a referent?

19) _____

A) length
B) mass
C) time
D) charge

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

20) The property of volume is a measure of

20) _____

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A) how much matter an object contains.
B) the compactness of matter in a given space.
C) the extent of the surface of an object.
D) how much space an object occupies.

Question Details
Bloom's : 2. Understand
Topic : Standard Units of Measurement
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

21) The basic means of acquiring understanding in the sciences is

21) _____

A) logical, well-thought-out conclusions.
B) thinking about facts that you can observe.
C) experimental evidence.
D) defined by a series of five steps called the scientific method.

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

22) Experiments that repeatedly show the same results consistently are best described as being

22) _____

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A) valid.
B) conclusive.
C) reliable.
D) weird.

Question Details
Bloom's : 3. Apply
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

23) A carefully constructed scientific explanation which requires further experimentation is called a

23) _____

A) theory.
B) hypothesis.
C) model.
D) principle.

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

24) Measurement is used to accurately

24) _____

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A) describe an object or event.
B) compare objects or events over a period of time.
C) find relationships that occur in nature.
D) All of the choices are correct.

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

25) Imagine a 10 g chunk of aluminum (ρ = 2.7 g/cm ^{3}) and a 10 g chunk of iron (ρ = 7.9 g/cm ^{3}). Which of the following is true?

25) _____

A) The chunk of iron is smaller than the chunk of aluminum.
B) The chunk of iron is more massive than the chunk of aluminum.
C) The chunk of aluminum is smaller than the chunk of iron.
D) Both objects have the same volume.

Question Details
Section : 01.04
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Accessibility : Keyboard Navigation
Chapter : 01

26) The SI standard unit for mass is the

26) _____

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A) pound.
B) newton.
C) kilogram.
D) mole.

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

27) The metric measurement that means one-hundredth of a meter is one

27) _____

A) decimeter.
B) hectoliter.
C) centimeter.
D) milligram.

Question Details
Section : 01.04
Topic : Standard Units of Measurement
Bloom's : 1. Remember
Accessibility : Keyboard Navigation
Chapter : 01

28) Measurement information used to describe something is called

28) _____

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A) a referent.
B) a value.
C) data.
D) a unit.

Question Details
Bloom's : 2. Understand
Section : 01.04
Topic : Standard Units of Measurement
Accessibility : Keyboard Navigation
Chapter : 01

29) When describing the amount of matter that composes a rock of a particular volume, which of the following units does ***not*** describe the rock's density?

29) _____

A) g/cm^3
B) L/kg
C) g/ml
D) kg/dm^3

Question Details
Topic : Standard Units of Measurement
Bloom's : 4. Analyze
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

30) What happens to the measured intensity of car headlights if you move from a distance of 10 m away to a new distance of 20 m?

30) _____

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A) 1/2
B) 1/4
C) 1/3
D) 1/9

Question Details
Topic : Standard Units of Measurement
Bloom's : 3. Apply
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

31) Misleading people into believing that something is supported by repeated fair tests when it does not is

31) _____

A) basic science.
B) applied science.
C) natural science.
D) pseudoscience.

Question Details
Bloom's : 2. Understand
Section : 01.08
Topic : Science, Nonscience, and Pseudoscience
Accessibility : Keyboard Navigation
Chapter : 01

32) What is the proportional relationship between the number of cookies in a cookie jar and the time you have been eating the cookies?

32) _____

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A) direct
B) inverse
C) square
D) inverse square

Question Details
Topic : Standard Units of Measurement
Bloom's : 3. Apply
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

33) A movie projector makes a 1 m by 1 m image when projecting 1 m from a screen, a 2 m by 2 m image when projecting 2 m from the screen, and a 3 m by 3 m image when projecting 3 m from the screen. What is the proportional relationship between the distance from the screen and the area of the image?

33) _____

A) direct
B) inverse
C) square
D) inverse square

Question Details
Topic : Standard Units of Measurement
Bloom's : 3. Apply
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

34) A car uses 1 gallon of gasoline to travel 10 miles, 2 gallons of gasoline to travel 20 miles, and 3 gallons of gasoline to travel 30 miles. What is the proportional relationship between the gallons of gasoline used and the distance a car can travel?

34) _____

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A) direct
B) inverse
C) square
D) inverse square

Question Details
Topic : Standard Units of Measurement
Bloom's : 3. Apply
Section : 01.06
Accessibility : Keyboard Navigation
Chapter : 01

35) A student believes that cobwebs form from dust since they always seem to appear when housekeeping chores are ignored. This student has made a statement that is

35) _____

A) a hypothesis.
B) conjecture.
C) a scientific law.
D) theory.

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

36) After years of observing, a homemaker concluded "Ugly rugs never wear out." This person has made a statement that is

36) _____

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A) a hypothesis.
B) conjecture.
C) a scientific law.
D) theory.

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

37) According to the scientific method, what needs to be done to move beyond conjecture or simple hypotheses in a person's understanding of their physical surroundings?

37) _____

A) Make an educated guess.
B) Conduct a controlled experiment.
C) Find an understood model with answers.
D) Search for answers on the Internet.

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

38) In general, scientific investigations have which activities in common?

38) _____

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A) state problem, gather data, make hypothesis, test, make conclusion
B) collect observations, develop explanations, test explanations
C) observe nature, reason an explanation for what is observed
D) observe nature, collect data, modify data to fit scientific model

Question Details
Bloom's : 2. Understand
Section : 01.07
Topic : Nature of Science
Accessibility : Keyboard Navigation
Chapter : 01

39) A 1 kilometer length is the same as how many meters?

39) _____

A) 0.001
B) 0.01
C) 10
D) 1000

Question Details
Section : 01.05
Topic : Metric Prefixes
Bloom's : 1. Remember
Accessibility : Keyboard Navigation
Chapter : 01

40) One-half liter of water is the same volume as

40) _____

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A) 5000 mL.
B) 0.5 cc.
C) 500 cm^3.
D) 5 dm^3.

Question Details
Bloom's : 2. Understand
Section : 01.05
Topic : Metric Prefixes
Accessibility : Keyboard Navigation
Chapter : 01

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Integrated Science 8th Edition by Tillery CH01

Answer Key

Test name: CH01

1) TRUE
2) FALSE
3) TRUE
4) TRUE
5) TRUE
6) FALSE
7) TRUE
8) TRUE
9) TRUE
10) FALSE
11) D
12) C
13) C
14) A
15) C
16) B
17) C
18) D
19) B
20) D
21) C
22) C
23) B
24) D
25) A
26) C

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27) C
28) C
29) B
30) B
31) D
32) B
33) C
34) A
35) B
36) A
37) B
38) B
39) D
40) C

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