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**8** **Chapter 8 Test, Form 2A** *(continued)*

12. MOVIES Adult movie tickets cost $8, and a child's ticket costs $6.25. If a group of 7 people spends $45.50 for tickets, how many of each type of ticket did they purchase? Solve using the guess and check strategy.
F. 1 child, 5 adults   H. 2 child, 4 adults
G. 4 child, 2 adults   J. 1 adult, 6 child

12. _____

13. NUMBER THEORY A number is divided by 6, then added to 18. What is the number if the result is 22? Solve using the guess and check strategy.
A. 32   B. 24   C. 30   D. 18

13. _____

14. Which equation best represents *The school bus seats no more than 36 students*? Solve using the guess and check strategy.
F. The school bus seats ≤ 36 students.
G. The school bus seats ≥ 36 students.
H. The school bus seats > 36 students.
J. The school bus seats < 36 students.

14. _____

15. Choose the value of x that would make the following inequality true: $26 + 2x > 43$.
A. 5   B. 10   C. 4   D. 8

15. _____

16. SCHOOL Mark wants to spend at least 90 minutes studying today for final exams. He has studied 20 minutes so far. Which inequality represent how much more time Mark needs to study?
F. $m \geq 70$ H. $m > 70$
G. $m \leq 70$ J. $m < 70$

16. _____

17. $m + 9 < 13$
A. $m < 4$ B. $m < 22$ C. $m > 4$ D. $m > 22$

17. _____

18. $\frac{a}{5} \geq 10$
F. $a \geq -15$ G. $a \leq -15$ H. $a \leq -50$ J. $a \geq -50$

18. _____

19. $4x + 1 > -11$
A. $x < -2.5$ B. $x > -2.5$ C. $x < -3$ D. $x > -3$

19. _____

20. The sum of a number and 25 is no more than 37. Write and solve an inequality to find the number.
F. $n \geq 57$ H. $n \leq 12$
G. $n \leq 57$ J. $n \geq 7$

20. _____

Bonus Solve $\frac{3c}{3} - 6 = 2$.   B: _____

Chapter 8   66   *Glencoe California Mathematics, Grade 7*

Chapter 2 Basic Chemistry

Although it is possible to study anatomy without much reference to chemistry, chemical reactions underlie all body processes–movement, digestion, the pumping of your heart, and even your thoughts. This chapter presents the basics of chemistry and biochemistry (the chemistry of living material), providing the background you will need to understand body functions.
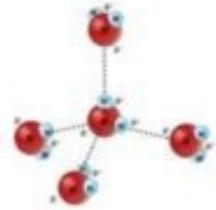
Concepts of Matter and Energy

- Differentiate clearly between matter and energy.
  - **Matter** – anything that occupies space and has mass (weight)
  - **Energy** – massless and does not take up space – can only be measured by its effects on matter – the ability to do work or to put matter into motion
- List the major energy forms and provide one example of how each energy form is used in the body.
  - **Chemical** – stored in the bonds of chemical substances, breaking bonds releases energy
  - **Electrical** – results from the movement of charged particles (ions) typically across a membrane
  - **Mechanical** – directly involved in moving matter – muscles moving bones
  - **Radiant** – travels in waves (electromagnetic spectrum) – includes X rays, infrared, light, radio, and UV waves – retinas in our eyes react to light energy

Composition of Matter

- Define **chemical element** and list the four elements that form the bulk of body matter.
  - Unique substances that cannot be broken down into simpler substances by ordinary chemical methods
  - Carbon, oxygen, hydrogen, nitrogen make up 96% of body weight
- Explain how elements and atoms are related.
  - **Atoms** are the building blocks of elements
  - Because all elements are unique, the atoms of each element differ from those of all other elements – change the atom, change the element
- List the subatomic particles and describe their relative masses, charges, and positions in the atom.
  - **Protons** – positive charge, found in nucleus, heavy mass (1 atomic mass unit)
  - **Neutrons** – neutral charge, found in nucleus, heavy mass (1 atomic mass unit)
  - **Electrons** – negative charge, found orbiting outside nucleus, mass is so small it equals 0amu
- Define **radioisotope** and describe briefly how radioisotopes are used in the diagnosis and treatment of disease.
  - Heavier **isotopes** of certain atoms are unstable and tend to decompose to become more stable
  - They are used in tiny amounts to tag biological molecules so that they can be followed, or traced, through the body such as in PET scans

Molecules and Compounds

- Recognize that chemical reactions involve the interaction of electrons to make and break chemical bonds.
- Define **molecule** and explain how molecules are related to compounds.
  - Form when two or more atoms combine chemically
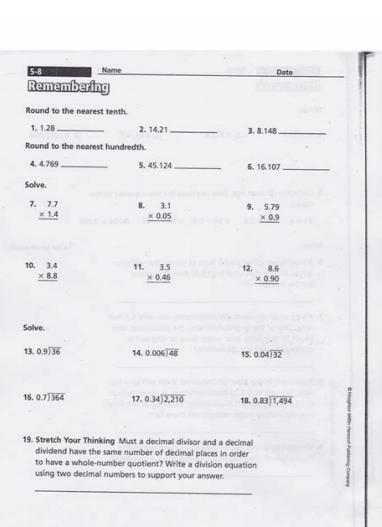
Nombre _____   Fecha _____

estructura

3.1 Descriptive adjectives

1 **¿Cómo son?** Use the adjective in parentheses that agrees with each subject to write descriptive sentences about them.

> modelo
> (gordo, delgada)
> Lidia: Lidia es delgada.
> el novio de Olga: El novio de Olga es gordo.

(simpático, guapos, alta)
1. la profesora de historia: La profesora de historia es alta
2. David y Simón: David y Simón son guapos
3. el artista: el artista es simpático

(trabajadora, viejo, delgadas)
4. esas (*those*) muchachas: esas muchachas son delgadas
5. el abuelo de Alberto: el abuelo de Alberto es viejo
6. la programadora: la programadora es trabajadora

2 **Descripciones** Complete each sentence with the correct forms of the adjectives in parentheses.
1. Lupe, Rosa y Tomás son buenos (bueno) amigos.
2. Ignacio es alto (alto) y guapo (guapo).
3. Lourdes y Virginia son bajas (bajo) y delgadas (delgado).
4. Pedro y Vanessa son morenos (moreno), pero Diana es pelirroja (pelirrojo).
5. Nosotras somos inteligentes (inteligente) y trabajadoras (trabajador).
6. Esos (*Those*) chicos son simpáticos (simpático), pero son tontos (tonto).

3 **No** Answer these questions using the adjective with the opposite meaning.

> modelo
> ¿Es alta Maite?
> No, es baja.

1. ¿Es antipático don Francisco? No, es simpático
2. ¿Son morenas las hermanas de Maite? No, son rubias
3. ¿Es fea la mamá de Javier? No, es bonita
4. ¿Son viejos los primos de Inés? No, son jóvenes
5. ¿Son malos los padres de Javier? No, son buenos
6. ¿Es guapo el tío de Álex? No, es feo.

    Lección 3 Estructura Activities   25

Lección 3

17. An air bubble in water will act like a
    (a) Convex mirror
    (b) Concave lens
    (c) Concave mirror
    (d) Convex lens

18. Which one of the following SI units is **not** correctly matched ?
    (a) Work – Joule
    (b) Force – Newton
    (c) Mass – Kg
    (d) Pressure – Dyne

19. DNA Fingerprinting and Diagnostics Research Centre is situated at
    (a) Pune   (b) New Delhi
    (c) Hyderabad   (d) Kolkata

20. Which system or arrangement connects micro computer with telephone ?
    (a) VDU   (b) MODEM
    (c) UNIX   (d) All the above

21. Which one of the following fuels causes minimum environmental pollution ?
    (a) Diesel   (b) Coal
    (c) Hydrogen   (d) Kerosene

22. Which one of the following can be used to measure temperature above 1500 °C ?
    (a) Clinical Thermometer
    (b) Thermocouple Thermometer
    (c) Platinum Resistance Thermometer
    (d) Pyrometer

23. The radio isotope used in the detection of tumour is
    (a) Arsenic – 74   (b) Cobalt – 60
    (c) Sodium – 24   (d) Carbon – 14

24. Which one of the following vitamins is helpful in keeping a dream in memory for a longer duration ?
    (a) Vitamin A   (b) Vitamin D
    (c) Vitamin B-6   (d) Vitamin C

25. "Sky Dive" is the name of Cloud Computing Service of which one of the following companies ?
    (a) Vodafone
    (b) BSNL
    (c) Microsoft
    (d) None of the above

26. The highest temperature attained by a super conductor is
    (a) 24 K   (b) 133 K
    (c) 150 K   (d) 300 K

27. What name has been given by NASA to the rock on Mars which was drilled into for the first time by Curiosity Rover in February 2013 ?
    (a) John Grotzinger
    (b) John Klein
    (c) Martian Rock
    (d) Patrick Scheurmann

28. The recently released film "Kai Po Che" is based on the novel :
    (a) Lashkar
    (b) The Loving Doll
    (c) The Story of My Marriage
    (d) The 3 Mistakes of My Life

29. In the end of September 2012, India has successfully launched its heaviest communication Satellite named
    (a) OCEAN SAT (IRS P-4)
    (b) LANDSAT - 10
    (c) GSAT - 10
    (d) SPOT

30. Wherefrom was the 100th space mission of ISRO launched in September 2012 ?
    (a) Sriharikota (Andhra Pradesh)
    (b) Mahendragiri (Tamil Nadu)
    (c) Thumba (Thiruvananthapuram, Kerala)
    (d) Bangluru (Karnataka)

31. The modern Brahmos Supersonic Missile like technology has been developed by India in collaboration with
    (a) U.S.A.   (b) Russia
    (c) France   (d) Japan

32. Which one of the following States of India has the highest urban density of population ?
    (a) Maharashtra   (b) Punjab
    (c) Tamil Nadu   (d) West Bengal

33. Which one of the following countries has the lower density of population ?
    (a) Canada   (b) Finland
    (c) Norway   (d) Russia

34. Under the Nuclear Power Projects, Environmental Effects that have to be studied and resolved are
    (a) Radioactive contamination of air, soil and water
    (b) Deforestation and loss of flora and fauna
    (c) Radioactive waste disposal.
    (d) All of the above.

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