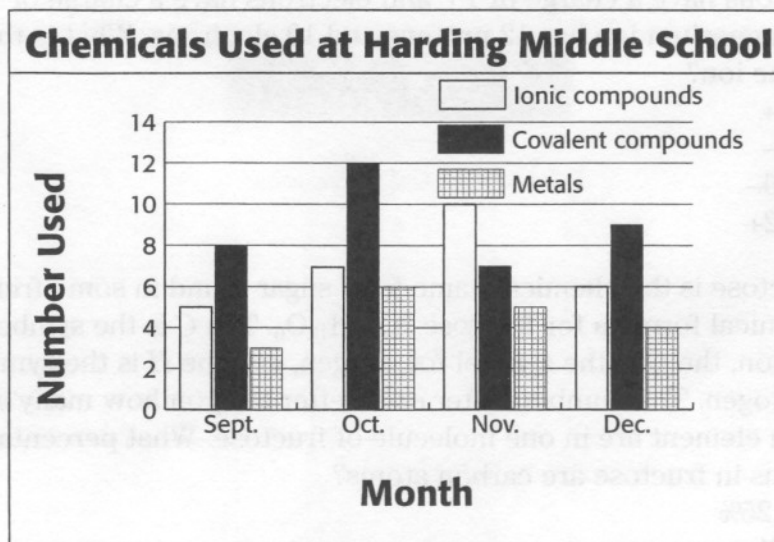


Standardized Test Preparation *continued*

INTERPRETING GRAPHICS

The graph below shows chemicals used by the science department at Harding Middle School. Use the graph to answer the questions that follow.



- _____ 1. In which month were the most ionic compounds used?
A September
B October
C November
D December
- _____ 2. Which type of chemical was used the least number of times?
F ionic compounds
G covalent compounds
H metals
I both ionic compounds and metals
- _____ 3. How many covalent compounds were used during all four months?
A 16
B 25
C 28
D 36
- _____ 4. In which month were the most compounds used?
F September
G October
H November
I December

Standardized Test Preparation *continued***MATH**

Read each question below, and choose the best answer.

- _____ 1. Protons have a charge of $1+$ and electrons have a charge of $1-$.
A magnesium ion has 12 protons and 10 electrons. What is the charge of the ion?
A $2+$
B $2-$
C $10-$
D $12+$
- _____ 2. Fructose is the chemical name for a sugar found in some fruits. The chemical formula for fructose is $C_6H_{12}O_6$. The C is the symbol for carbon, the O is the symbol for oxygen, and the H is the symbol for hydrogen. The numbers after each letter tell you how many atoms of each element are in one molecule of fructose. What percentage of the atoms in fructose are carbon atoms?
F 0.25%
G 6%
H 25%
I 33%
- _____ 3. The density of an object is found by dividing its mass by its volume. Katie has a piece of silver metal that has a mass of 5.4 g and a volume of 2.0 cm^3 . What is the density of Katie's metal?
A $0.37\text{ cm}^3/\text{g}$
B 2.7 g/cm^3
C 7.4 g/cm^3
D $10.8\text{ g}\cdot\text{cm}^3$
- _____ 4. Ms. Mazza is a chemistry teacher. During class, her students ask her four to six questions every 10 min. What is a reasonable estimate of the number of questions asked during a 45 min class period?
F 12 questions
G 15 questions
H 23 questions
I 40 questions