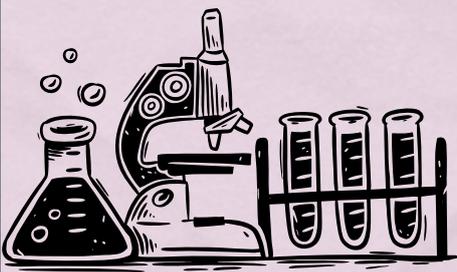


CHEMISTRY



CHAPTER 1



لجنة
طب الأسنان

8) Convert 421.1 K to its equivalent temperature in degrees Celsius?

- A) 148°C
- B) 148.0°C
- C) 152.0°C
- D) 694.0°C
- E) -148.0°C

21) Using the rules of significant figures, calculate the following ?

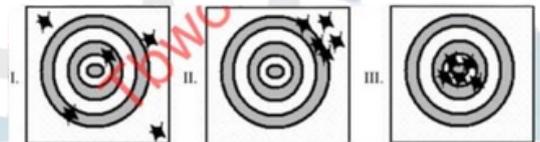
- A) 14.5
- B) 16
- C) 15
- D) 82
- E) 14.9

$$\frac{8.167 + 68}{5.10}$$

41) Consider the following three archery targets:

Which of the following figure(s) represent a result having high precision?

- A) Figure I only
- B) Figure II only
- C) Figure III only
- D) Figure I and Figure II
- E) Figure II and Figure III



40) As part of the calibration of a new laboratory balance, a 1.000-g mass is weighed with the following results:

Trial	Mass
1	1.201 ± 0.001
2	1.202 ± 0.001
3	1.200 ± 0.001

The balance is:

- A) Both accurate and precise.
- B) Accurate but imprecise.
- C) Precise but inaccurate
- D) Both inaccurate and imprecise.
- E) Accuracy and precision are impossible to determine with the available information.

B C E C

22) Generally , observed behavior that can be formulated into a statement, sometimes mathematical in nature , is called a(n) ?
A) Observation
B) Measurement
C) Theory
D) Natural law
E) Experiment

43) As warm water sits in a cool room, you measure the temperature change ($\Delta T = T_f - T_i$). Which of the following is true ?
A) The temperature change (ΔT) is bigger if you are measuring in °F
B) The temperature change (ΔT) is bigger if you are measuring in °C
C) The temperature change (ΔT) will be the same regardless of the scale you use.
D) Answer A or B is correct, depending on the difference in temperature between the water and the room.
E) None of the above.

42) How many significant figures should be reported for the difference between 18.7378 mL and 18.57 mL?
A) 1
B) 2
C) 3
D) 4
E) 6

D A B

تاج الذكر

لَا إِلَهَ إِلَّا اللَّهُ، وَحْدَهُ لَا شَرِيكَ لَهُ، لَهُ
الْمُلْكُ وَلَهُ الْحَمْدُ، وَهُوَ عَلَى كُلِّ شَيْءٍ قَدِيرٌ