

1 A planet in our solar system orbits the sun in approximately 225 Earth days. Which of these conclusions is **best** supported by this information?

- A The planet orbits closer to the sun than Earth does.
- B The planet's orbit is more circular than Earth's orbit.
- C The planet orbits the sun at a slower speed than Earth does.
- D The planet's orbit is more elliptical than Earth's orbit.

2 Which of these astronomical objects is the largest?

- A a star
- B a planet
- C a spiral galaxy
- D a solar system

3 Which human body system **most** directly delivers nutrients to cells throughout the body?

- A nervous system
- B muscular system
- C digestive system
- D circulatory system

4 Which two laboratory instruments would be **most** useful for determining the density of a liquid substance?

- A beaker and thermometer
- B hot plate and spring scale
- C hygrometer and metric ruler
- D graduated cylinder and balance

5 The picture below shows the appearance of the moon that a student observed on a clear night.



Which phase of the moon could the student observe three nights later?



6 A student observed a layer of rock that contained *several* fossils. Which of these processes were **most** directly involved in forming this layer of rock?

- A freezing and thawing
- B evaporation and condensation
- C erosion and runoff
- D sedimentation and compaction

7

A student collected the data below from his class.

Class Birthdays

Season	Number of Boys' Birthdays	Number of Girls' Birthdays
Spring (Mar. 21–Jun. 20)	2	5
Summer (Jun. 21–Sept. 20)	3	3
Fall (Sept. 21–Dec. 20)	6	4
Winter (Dec. 21–Mar. 20)	4	3

He concluded that boys are more likely to be born in the fall and girls are more likely to be born in the spring. Which of these actions should he take to make his data more reliable?

- A He should get data from more students.
- B He should group the data by age instead of gender.
- C He should factor in where the students were born.
- D He should ask about the students' birth month instead of birth season.

8

The table below shows some of the characteristics of four groups of organisms.

Characteristics of Four Groups of Organisms

Group	Has Organ Systems	Has a Backbone	Is Warm Blooded	Produces Milk
1	No	No	No	No
2	Yes	No	No	No
3	Yes	Yes	No	No
4	Yes	Yes	Yes	Yes

Based on the characteristics shown, which group could include reptiles?

- A group 1
- B group 2
- C group 3
- D group 4

Answers:

1. A

2. C

3. D

4. D

5. C

6. D

7. A

8. C