

Worksheet

Our Universe

MCQs

Question 1: Name the planet closest to the Sun.

- (a) Mercury
- (b) Earth
- (c) Venus
- (d) None of them

Answer:

Correct Answer is Option A

The smallest planet in our solar system and nearest to the Sun, Mercury is only slightly larger than Earth's Moon.

Question 2: Many years ago, a huge ball of fire was created. This theory is known as

- (a) Big Bang
- (b) Solar system
- (c) Earthquake
- (d) None of these

Answer:

Correct Answer is Option A

During the Big Bang, all of the space, time, matter, and energy in the Universe was created. This giant explosion hurled matter in all directions and caused space itself to expand. As the Universe cooled, the material in it combined to form galaxies, stars, and planets.

Question 3: What is the name of the earth's galaxy?

- (a) Milky Way
- (b) Comets

- (c) Orbit
- (d) None of them

Answer:

Correct Answer is Option A

Earth is in the second largest galaxy of the Local Group - a galaxy called the Milky Way. The Milky Way is a large spiral galaxy. Earth is located in one of the spiral arms of the Milky Way.

Fill in the blanks

Question 4:

- Mars is the fourth nearest planet to the Sun.
- While the planet revolves, it also rotates on its axis.
- The universe contains thousands of stars.
- We live on the planet earth.

Tips:

- Mars is the fourth planet from the Sun. In order of their distance to the Sun, the planets are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
- Each planet rotates, or spins, on its axis. The rotation of the Earth on its axis causes day and night.
- The Universe contains billions of galaxies, each containing millions or billions of stars. The space between the stars and galaxies is largely empty.
- Earth- our home planet - is the only place we know of so far that's inhabited by living things. It's also the only planet in our solar system with liquid water on the surface.

Answer the following questions

Question 5: How many stars are there in the earth's galaxy?

Answer: It is estimated That galaxy contains 100–400 billion stars and at least that number of planets.

Question 6: What is Milky Way?

Answer: The Milky Way is the Galaxy in which we live. It is a spiral shaped galaxy that contains several hundred billion stars, including our Sun. It is about 100,000 light-years across and about 10,000 light-years thick.





Question 7: Describe the Big Bang theory.

Answer: The big bang is how astronomers explain the way the universe began. During the Big Bang, all of the space, time, matter, and energy in the Universe was created. This giant explosion hurled matter in all directions and caused space itself to expand. As the Universe cooled, the material in it combined to form galaxies, stars, and planets.

Question 8: What do you mean by the solar system?

Answer: Our solar system is home to Earth and seven other planets. Each planet rotates on its own axis while revolving around the Sun. The term Solar System refers to the "family" of the Sun. The Sun is a star around which eight planets, among other celestial objects, revolve in orbits. This whole system of bodies is called the Solar System. The Sun is the "head" of this system.

Match the following**Question 9:**

Column A		Column B
1. Sun	(a)	
2. Earth	(b)	
3. Moon	(c)	
4. Milky Way	(d)	

Sun - (d)

Earth - (c)

Moon - (a)

Milky way - (b)

True & False

Question 10:

- There are billions of galaxies in the universe. True
- The earth is the third planet in the solar system. True
- The moon is an artificial satellite of the earth. True

Tips:

While estimates among different experts vary, an acceptable range is between 100 billion and 200 billion galaxies.

Our solar system has eight planets. Earth is the third planet from the sun. Mercury is the first because it is closest to the sun. Venus is second.

A satellite is a body that revolves around another body in a path called the orbit. The earth is a satellite of the sun because it moves around the sun and the moon is a satellite of earth because it moves around the earth. Satellites that are put into orbit by man are called artificial satellites.