

Answer all questions in the Science exercise book.



The picture above shows a galaxy taken by a space telescope.

(a) What is the definition of a galaxy?

(b) What is the type of the galaxy shown in the picture above?

2. Fill in the blanks below with the correct answers.

(a) The Milky Way is a _____ with a _____ shape.

(b) The Solar System consists of the _____, Earth, and _____ other planets that are located in the _____ galaxy.

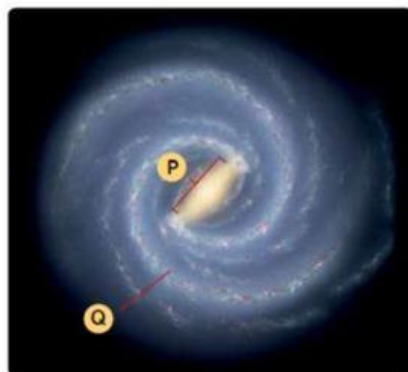
(c) The universe contains billions of galaxies that have various _____ and _____.

Object X appears like a band of stars stretching across the sky and glowing dimly when it is viewed from Earth. The ancient Romans imagine it as spilled milk in the night sky.

3. Based on the statement above, answer the following questions.

(a) What is object X?

(b) What is the type of object X?

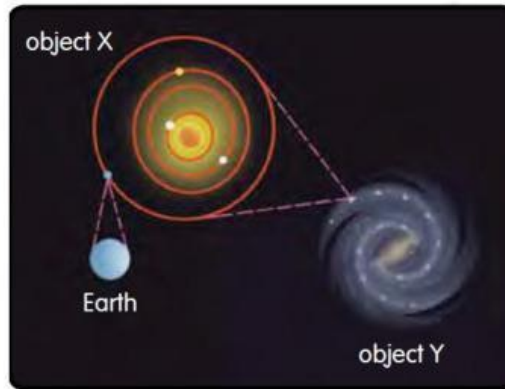


4. State the parts marked as P and Q as shown in the picture above.

P: _____

Q: _____

5. The picture shows object X as part of object Y in the universe.



(a) Name object X and Y. X: _____ Y: _____

(b) What is the name of the star in object X? _____

6. Tick (✓) the correct statements and (X) the wrong statements about the size of the Milky Way galaxy.

(a) The size of the Milky Way galaxy is the same as the Solar System.

☐

(b) The size of the Milky Way galaxy is very small compared to the Solar System.

☐

(c) The size of the Milky Way galaxy is very big compared to the Solar System.

☐

(d) If the size of the Solar System is imagined to be as big as the diameter of a

☐

pencil, then the size of the Milky Way galaxy could cover the size of a school field.



7. The picture above shows the side view of galaxy Q that contains the Sun.

(a) Name galaxy Q. _____

(b) Give two facts about galaxy Q.

1. _____

2. _____

8. The Milky Way galaxy resembles a _____ that _____ at the centre if it is observed from the side view.