ورقة عمل ومقارنة بين كوكبي الأرض ونبتون

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G.6 ADV _ Unit 3 . 3B _Winners

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3B _ What are difference between Earth and Neptune ?

Vocabulary

Word	Meaning (in Arabic)
Planet	كوكب
Sun	الشمس
Solar system	النظام الشمسي
Distance	مسافة
Circumference	**محيط**
Middle	الوسط
Spin around	يدور حول
Surface	سطح
Solid	صلب
Covered	مغطى
Water	ماء
Rings	حلقات
Moon	قمر
Discovery	اكتشاف
Gases	غازات
Trip	رحلة
Exact	دقيق /محدد
Largest	الأكبر
Eighth	الثامن
Fifth	الخامس
Complete	يكتمل
Radius	نصف القطر
Century	قرن
Ice giant	عملاق جليدي
Atmosphere	غلاف جوي

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Earth

Earth is the third planet from the sun and the fifth largest planet in our solar system. The distance between the Earth and the sun is 149,598,262km, but this distance changes a little as our planet goes around the sun. The circumference of the Earth, or distance around the middle, is 40,030.2km. On Earth, a day is 24 hours and a year is 365 days. However, our planet takes only 23.93 hours to spin around once, but 365.25 days to go around the sun. The Earth's surface is solid, but is covered mostly by water. It has no rings and only one moon, whereas all the other planets in the solar system have two or more, or none at all.

Neptune

Neptune is the eighth planet from the sun and the fourth largest planet in our solar system. The distance between Neptune and the sun is 4,498,396,441km. The planet's circumference, or distance around the middle, is 154,704.6km. A day on Neptune is 16.11 hours. A year, however, is 164 Earth years. In fact, in 2011, Neptune completed its first trip around the sun since discovery in 1846. Neptune does not have an exact surface, as the planet is made up of water and gases. The planet has 14 moons and 6 rings, which are hard to see.

Questions

1. How many planets are between the Sun and the Earth?
   a) One b) Two c) Four d) Two

2. The distance between the Earth and the Sun is about _____.
   a) 4,498,396,441 km b) 149,598,262 km c) 154,704.6 km d) 40,030.2 km

3. What is the circumference of the Earth?
   a) 40,030.2 km b) 23.93 hours c) 365.25 days d) 149,598,262 km

4. How long does it take for the Earth to spin once around its axis?
   a) 24 hours b) 365 days c) 23.93 hours d) 12 hours

5. What covers most of Earth's surface?
   a) Air b) Ice c) Water d) Soil

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6. How many rings does Neptune have?
   a) 2 b) 4 c) 5 d) 6

7. A day on Neptune lasts about _____.
   a) 24 hours b) 16.11 hours c) 23.93 hours d) 12 hours

8. What is Neptune mainly made of?
   a) Water and gases b) Rock and metal c) Ice and soil d) Dust and gas clouds

***-Complete the sentences with the suitable word:-**

(century – planet x2 - circumference – atmosphere – distance – solar system – surface)

1. Most of the Earth's ..... is covered by water.
2. Neptune is a .....
3. Jupiter is the biggest ..... in the .....
4. The average ..... between the Earth and the moon is 384,400 km.
5. Pluto was discovered in the 20th .....
6. Earth's ..... is mostly nitrogen, but it also has oxygen and carbon dioxide.
7. The ..... of Jupiter is about eleven times the size of Earth's.

***- Match the words to their definitions.**

1. atmosphere	**a. distance around the middle of a planet**
2. circumference	**b. the sun and everything that goes around it**
3. century	**c. a very large, cold planet covered in ice**
4. distance	**d. Earth, Mars, Neptune...**
5. ice giant	**e. the gases that are around the outside of a planet**
6. planet	**f. the outside of a planet**
7. solar system	**g. one hundred years**
8. surface	**h. the number of centimeters, meters, or kilometers between two places or things**

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*- Match the words to their definitions.

1. Venus has a circumference of 40,030.2 km,	a. However, a day on Jupiter is less than 10 hours
2. Earth has a true surface.	b. but Neptune has a circumference of 154,704.6 km.
3. Saturn has thousands of rings,	c. but Mercury is the closest planet to the sun at a distance of only about 58 million km.
4. Neptune has 14 moons,	d. but Earth only has one.
5. A day on Venus is 243 days.	e. However, Neptune does not.
6. Mercury goes around the sun every 88 days,	f. but Neptune takes about 165 years.
7. Neptune is about 4.5 billion km from the sun,	g. whereas Mercury has none.

Grammar :

Simple Rule Explanation

- **but / whereas** → go **after a comma (,)** in the middle of a sentence.
  - *Example:* I like tea, **but** my brother likes coffee.
  - *Example:* The sun is hot, **whereas** the moon is cold.
- **however** → usually goes **at the beginning of a sentence** and is **followed by a comma (,)**.
  - *Example:* **However,** I didn't have time to finish my homework, I met my friends.
- **also** → comes **after the subject** in a sentence.
  - *Example:* She **also** plays the piano.
- **because** → shows the **reason**, and it's **used in the middle** of a sentence.
  - *Example:* I stayed home **because** it was raining.
- **so** → shows the **result**, and it's **used in the middle** of a sentence **after a comma**.
  - *Example:* It was cold, **so** we stayed inside.
- **although** → shows **contrast**, and it's **usually at the beginning** of a sentence.
  - *Example:* **Although** it was raining, we went for a walk.

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- Choose the correct answer:-

1. I was tired, _____ I went to bed early.
   a) so b) because c) although d) whereas
2. _____ it was sunny, we didn't go out.
   a) Also b) But c) Because d) Although
3. She is very friendly, _____ she is sometimes shy.
   a) also b) because c) but d) so
4. He is clever. _____, he is very hard-working.
   a) But b) Because c) However d) Whereas

5. It was raining, _____ we took an umbrella.
   a) so b) but c) whereas d) also
6. _____ it was very cold, they went swimming.
   a) Because b) So c) But d) Although
7. She didn't come to school _____ she was sick.
   a) whereas b) also c) because d) so
8. He likes cats, _____ his sister prefers dogs.
   a) so b) because c) also d) but
9. It was late, _____ they decided to go home.
   a) so b) although c) because d) whereas
10. _____ she studied hard, she didn't pass the test.
    a) Because b) So c) But d) Although
11. I wanted to buy the jacket, _____ it was too expensive.
    a) so b) because c) but d) although
12. He is tall. _____, he doesn't play basketball very well.
    a) But b) However c) Because d) Whereas
13. They were hungry, _____ they ordered pizza.
    a) so b) however c) although d) whereas
14. _____ the movie was long, it was very interesting.
    a) Because b) So c) Although d) But
15. I didn't go out _____ I had a lot of homework.
    a) because b) so c) although d) whereas
16. He likes running, _____ I prefer swimming.
    a) so b) because c) but d) however
17. _____, I forgot to bring my notebook today.
    a) Although b) Because c) However d) So

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18. She plays the guitar, and she _____ sings very well.
a) also b) but c) whereas d) although

19. We didn't go to the park _____ it was raining.
a) because b) so c) but d) whereas

20. I love chocolate, _____ I don't like sweets that much.
a) so b) whereas c) also d) although

- Choose the correct answer :-

1. **Earth is a beautiful _____ that we all live on.**
a) moon b) ring c) gas d) planet

2. **The _____ gives light and heat to all the planets.**
a) moon b) sun c) water d) trip

3. **All the planets together make up our _____.**
a) solar system b) distance c) century d) surface

4. **The _____ between Earth and the Sun is very large.**
a) atmosphere b) trip c) distance d) radius

5. **The _____ of the Earth is 40,030 km.**
a) middle b) fifth c) circumference d) gases

6. **The ball has a red line around its _____.**
a) water b) atmosphere c) surface d) middle

7. **The Earth takes one day to _____ once.**
a) cover b) spin around c) complete d) discover

8. **The _____ of the table is smooth and clean.**
a) surface b) atmosphere c) planet d) ice giant

9. **The rock is very hard and _____.**
a) covered b) fifth c) solid d) largest

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10. **The mountains are _____ with white snow.**
a) covered b) gases c) eighth d) circumference

11. **More than 70% of Earth is _____.**
a) rings b) sun c) water d) discovery

12. **Saturn has beautiful _____ around it.**
a) distance b) rings c) surface d) trip

13. **The _____ moves around the Earth.**
a) moon b) middle c) gases d) solid

14. **The scientist made a great _____ about a new planet.**
a) discovery b) circumference c) atmosphere d) fifth

15. **Some planets have thick layers of _____.**
a) middle b) gases c) water d) surface

16. **Our class went on a school _____ to the science museum.**
a) sun b) distance c) trip d) largest

17. **We don't know the _____ number of stars in the sky.**
a) fifth b) exact c) middle d) atmosphere

18. **Jupiter is the _____ planet in our solar system.**
a) covered b) largest c) radius d) atmosphere

19. **Neptune is the _____ planet from the Sun.**
a) atmosphere b) fifth c) eighth d) water

20. **Earth is the _____ planet from the Sun.**
a) water b) fifth c) surface d) largest

21. **Neptune will _____ one orbit around the Sun in 164 years.**
a) exact b) covered c) complete d) distance

22. **The _____ of the Earth is about 6,371 km.**
a) gases b) distance c) radius d) sun

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23. **A _____ is equal to one hundred years.**
a) distance b) moon c) century d) trip

24. **Neptune is called an _____ because it's made of ice and gas.**
a) discovery b) atmosphere c) ice giant d) fifth

25. **The _____ protects the Earth from the Sun's harmful rays.**
a) water b) atmosphere c) radius d) moon

Write a paragraph comparing Venus and Jupiter. Use but, whereas and however.

Venus and Jupiter are two interesting planets in our solar system, **but** they are very different from each other. Venus is the second planet from the Sun, **whereas** Jupiter is the fifth. Venus is small and rocky, **but** Jupiter is a giant gas planet. Venus has a very hot surface because it is covered with thick clouds, **whereas** Jupiter is extremely cold and windy. **However,** both planets are very bright and can be seen easily from Earth. Venus does not have any moons, **but** Jupiter has more than seventy. Venus takes about 225 days to go around the Sun, **whereas** Jupiter takes almost 12 years. **However,** they are both beautiful and help scientists learn more about our amazing solar system.

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