**Traveler’s Guide to the Planets – Pluto & Beyond**

1. This is the Solar System’s most puzzling world.

 a. Ceres c. Mars

 b. MakeMake d. Pluto

2. The surface temperature is –\_\_\_\_\_o F. ***(Enter a number)***

3. The diameter of Pluto is half the width of…

 a. Mercury. c. North America.

 b. the Moon. d. Russia

4. One year on Pluto is \_\_\_\_\_\_ Earth years long. ***(Enter a number)***

5. This is the largest of Pluto’s moons.

 a. Charon c. Nix

 b. Hydra d. Styx

6. Charon is about the same size as Pluto.

 a. True b. False

7. This mission is on its way to Pluto.

 a. Dawn c. MAVEN

 b. Juno d. New Horizons

8. Traveling at 36,000 mph, New Horizons was the \_\_\_\_\_\_\_ spacecraft ever launched.

 a. fastest b. slowest

9. When New Horizons arrives at Pluto, it will take a signal \_\_\_ hours to reach Earth. ***(Enter a number)***

10. New Horizons will arrive at Pluto July 14, \_\_\_\_\_. ***(Enter a number)***

11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ discovered Pluto.

 a. Mike Brown c. Carl Sagan

 b. Clyde Tombaugh d. Neil deGrasse Tyson

12. Pluto was discovered February 18, \_\_\_\_\_\_. ***(Enter a number)***

13. Pluto’s atmosphere is…

 a. thick. b. thin.

14. During the winter, Pluto’s atmosphere freezes and falls to the ground.

 a. True b. False

15. Absolute zero, the temperature at which all motion stops, is –\_\_\_\_\_o F. ***(Enter a number)***

16. The objects around Pluto’s orbit number in the…

 a. hundreds. c. hundreds of thousands.

 b. thousands. d. millions

17. Pluto is now classified as a…

 a. dwarf planet. c. rocky world.

 b. gas giant.

18. There are currently \_\_\_\_ dwarf planets. ***(Enter a number)***

19. Many comets come from this part of the Solar System.

 a. Asteroid Belt b. Kuiper Belt

20. Voyager 1 is \_\_\_\_\_\_ time the distance Earth is from the Sun. Voyager 2 is \_\_\_\_\_\_ time the distance Earth is from the Sun. ***(There are two or more answers to this question.)***

 a. 90 c. 110

 b. 100 d. 120

21. Another place where you find comets is in the Oort Cloud. The Oort Cloud is \_\_\_\_% of the way to the nearest star. ***(Enter a number)***

22. The edge of the Oort Cloud marks this.

 a. Intrastellar space. c. City limits of the Solar System.

 b. The edge of comets. d. The beginning of the next Solar System.

23. Using the wobble method, over \_\_\_\_\_\_\_ exoplanets have been discover. ***(Enter a number)***

**Traveler’s Guide to the Planets – Pluto & Beyond – Key**

1. This is the Solar System’s most puzzling world.

 ***d. Pluto***

2. The surface temperature is –\_\_\_\_\_o F. ***(Enter a number)***

 ***390***

3. The diameter of Pluto is half the width of…

 ***c. North America***

4. One year on Pluto is \_\_\_\_\_\_ Earth years long. ***(Enter a number)***

 ***248***

5. This is the largest of Pluto’s moons.

 ***a. Charon***

6. Charon is about the same size as Pluto.

 ***b. False***

7. This mission is on its way to Pluto.

 ***d. New Horizons***

8. Traveling at 36,000 mph, New Horizons was the \_\_\_\_\_\_\_ spacecraft ever launched.

 ***a. fastest***

9. When New Horizons arrives at Pluto, it will take a signal \_\_\_ hours to reach Earth. ***(Enter a number)***

 ***4***

10. New Horizons will arrive at Pluto July 14, \_\_\_\_\_. ***(Enter a number)***

 ***2015***

11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ discovered Pluto.

 ***b. Clyde Tombaugh***

12. Pluto was discovered February 18, \_\_\_\_\_\_. ***(Enter a number)***

 ***1930***

13. Pluto’s atmosphere is…

 ***b. thin***

14. During the winter, Pluto’s atmosphere freezes and falls to the ground.

 ***a. True***

15. Absolute zero, the temperature at which all motion stops, is –\_\_\_\_\_o F. ***(Enter a number)***

 ***460***

16. The objects around Pluto’s orbit number in the…

 ***d. millions***

17. Pluto is now classified as a…

 ***a. dwarf planet***

18. There are currently \_\_\_\_ dwarf planets. ***(Enter a number)***

 ***5***

19. Many comets come from this part of the Solar System.

 ***b. Kuiper Belt***

20. Voyager 1 is \_\_\_\_\_\_ time the distance Earth is from the Sun. Voyager 2 is \_\_\_\_\_\_ time the distance Earth is from the Sun. ***(There are two or more answers to this question.)***

 ***a. 90; c. 110***

21. Another place where you find comets is in the Oort Cloud. The Oort Cloud is \_\_\_\_% of the way to the nearest star. ***(Enter a number)***

 ***10***

22. The edge of the Oort Cloud marks this.

 ***c. City limits of the Solar System.***

23. Using the wobble method, over \_\_\_\_\_\_\_ exoplanets have been discover. ***(Enter a number)***

 ***400***

**Traveler’s Guide to the Planets – Pluto & Beyond – Scoring Guide**

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| --- | --- |
| ***1. d******2. 390******3. c******4. 248******5. a******6. b******7. d******8. a (2 choices)******9. 4******10. 2015******11. b******12. 1930******13. b (2 choices)******14. a (2 choices)******15. 460******16. d******17. a******18. 5******19. b******20. a, c******21. 10******22. c******23. 400*** | ***Scoring Guide******23 – 4*** ***20-22 – 3*** ***17-19 – 2.5******15-16 – 2*** ***13-14 – 1.5******11-12 – 1*** ***1-10 – .5*** ***0 – 0***  |