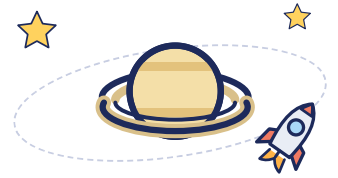


Space Quiz



Mission Control

Adults & trivia night · ages 15+

SCORE

____ / 30

Name _____ Team _____ Date _____

30 questions · 30 points · about 40 minutes

1

The Solar System

10 POINTS

Circle the letter of the correct answer. One point each.

- ① Which planet has a day (one full spin) that is longer than its year?

(A) Mercury
(B) Venus
(C) Mars
(D) Neptune
- ② Which planet is less dense than water, so it would float in a big enough bathtub?

(A) Jupiter
(B) Neptune
(C) Earth
(D) Saturn
- ③ About what share of the solar system's mass is the Sun?

(A) 99.8%
(B) 75%
(C) 90%
(D) 50%
- ④ Olympus Mons, the tallest volcano in the solar system, is on which planet?

(A) Earth
(B) Venus
(C) Mars
(D) Mercury
- ⑤ Which planet spins tilted on its side, like a ball rolling along its orbit?

(A) Saturn
(B) Neptune
(C) Jupiter
(D) Uranus
- ⑥ About how long does sunlight take to reach Earth?

(A) 8 seconds
(B) 8 minutes
(C) 8 hours
(D) 8 days
- ⑦ Which moon of Saturn has a thick atmosphere and lakes of liquid methane?

(A) Titan
(B) Enceladus
(C) Triton
(D) Io
- ⑧ Which planet has the shortest day, spinning once in under 10 hours?

(A) Earth
(B) Saturn
(C) Jupiter
(D) Mercury
- ⑨ Jupiter's Great Red Spot is a giant what?

(A) Volcano
(B) Crater
(C) Storm
(D) Ocean
- ⑩ We always see the same side of the Moon because it

(A) Rotates once per orbit
(C) Is held still by the Sun

(B) Does not rotate at all
(D) Is flat like a coin

2

Stars, Galaxies & the Universe

10 POINTS

Circle the letter of the correct answer. One point each.

- 11 Which single star is nearest to the Sun?
(A) Sirius (B) Alpha Centauri A (C) Proxima Centauri (D) Betelgeuse
- 12 Which star looks brightest in Earth's night sky?
(A) Polaris (B) Betelgeuse (C) Vega (D) Sirius
- 13 What is the nearest large spiral galaxy to our Milky Way?
(A) Andromeda (B) Whirlpool (C) Sombrero (D) Pinwheel
- 14 Which shape best describes our Milky Way galaxy?
(A) Elliptical (B) Irregular (C) Barred spiral (D) Ring
- 15 A sugar-cube-sized scoop of neutron star would weigh about
(A) 1 billion tons (B) 1 ton (C) 1 million tons (D) 1 kilogram
- 16 What is the point of no return around a black hole called?
(A) Singularity (B) Event horizon (C) Accretion disk (D) Photosphere
- 17 A rapidly spinning neutron star that sweeps beams of radiation past Earth is called a
(A) Quasar (B) Nova (C) Red giant (D) Pulsar
- 18 About what share of the universe's total mass and energy is ordinary matter?
(A) 50% (B) 27% (C) 5% (D) 95%
- 19 About how old is the universe?
(A) 4.6 billion years (B) 13.8 billion years (C) 138 billion years (D) 1 billion years
- 20 Stars twinkle mainly because of
(A) Pulsing inside the star (B) Earth's atmosphere bending starlight
(C) Dust between the stars (D) Earth's rotation

3

Space Exploration

10 POINTS

Circle the letter of the correct answer. One point each.

- 21 Which country launched Sputnik 1, the first artificial satellite, in 1957?
(A) United States (B) Soviet Union (C) China (D) Germany
- 22 Who became the first human in space, in 1961?
(A) Alan Shepard (B) Neil Armstrong (C) John Glenn (D) Yuri Gagarin

- 23 Who was the first woman in space, in 1963?
- (A) Sally Ride (B) Valentina Tereshkova
(C) Svetlana Savitskaya (D) Mae Jemison
- 24 Which Apollo mission first landed people on the Moon?
- (A) Apollo 13 (B) Apollo 8 (C) Apollo 11 (D) Apollo 17
- 25 Which Apollo 11 astronaut orbited the Moon alone while his two crewmates landed?
- (A) Michael Collins (B) Buzz Aldrin (C) Jim Lovell (D) Pete Conrad
- 26 What was Laika, who orbited Earth aboard Sputnik 2 in 1957?
- (A) A rabbit (B) A chimpanzee (C) A dog (D) A cat
- 27 Which Moon mission was cut short by an onboard explosion, yet its crew returned safely?
- (A) Apollo 13 (B) Apollo 1 (C) Apollo 9 (D) Apollo 11
- 28 Who became the first American woman in space, in 1983?
- (A) Mae Jemison (B) Christa McAuliffe (C) Judith Resnik (D) Sally Ride
- 29 Hubble's first images in 1990 were blurry. What was wrong?
- (A) The lens cap was stuck (B) Its primary mirror had the wrong shape
(C) Its solar panels shaded the camera (D) Its camera was aimed wrong
- 30 Launched in 1977, each Voyager spacecraft carries a golden what, meant for any alien finders?
- (A) Compass (B) Camera (C) Statue (D) Phonograph record



Tiebreaker

Closest answer wins.

TIEBREAKER

What is the average distance from Earth to the Moon, in kilometers?

Your answer _____