

# Shortest day in our solar system

Which planet has the shortest day?

The planet Jupiter has the shortest day of all the eight major planets in the Solar System. It spins around on its axis once every 9 hr 55 min 29.69 sec. Jupiter has a small axial tilt of only 3.13 degrees, meaning it has little seasonal variation during its 11.86-year-long orbit of the Sun.

Which planet has the shortest orbital period?

Mercury. Mercury is the smallest planet in the solar system and the closest planet to the sun. Since Mercury is the closest planet to the sun, it also has the shortest orbital period, taking only 88 days to complete one orbit around the sun. The orbital and rotational periods of Mercury exist in a 3:2 resonance.

How long are solar days on Earth?

That means some solar days on Earth are a few minutes longer than 24 hours and some are a few minutes shorter. Another way to measure a day is to count the amount of time it takes for a planet to completely spin around and make one full rotation. This is called a sidereal day. On Earth, a sidereal day is almost exactly 23 hours and 56 minutes.

Which planet has the longest sidereal day?

Venus also has the slowest rotation of any planet in the solar system, and thus it has the longest measured sidereal day of any other planet. Venus rotates so slowly that it takes longer for Venus to rotate once about its axis than it does to orbit the sun. It takes Venus 225 days to orbit the sun, and 243 days to rotate once about its axis.

How long is a day on each planet?

If it turns on its axis, it has a "day and night" cycle. The following table depicts how long a day is on each planet in the solar system. When asking, "how long is a day on each planet," Earth's day is 24 hours, Jupiter's is about 10 hours, while Mercury's day lasts 58.6 Earth days.

How long does a day last on other planets?

We can write a paragraph about how long days last on other planets. On Mercury a day lasts 1,408 hours, and on Venus it lasts 5,832 hours. On Earth and Mars it's very similar. Earth takes 24 hours to complete one spin, and Mars takes 25 hours.

Jupiter, the largest planet in our solar system, completes a full rotation in just under 10 hours. Because of this rapid spin, its days are incredibly short, setting it apart from other planets. ... Venus rotates so slowly that its day is longer than its year. Jupiter, however, spins so fast that it completes more than two rotations in a single ...

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



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Moon. From the surface of Mercury, the Sun would appear more than three times as large as it does when viewed ...

Our solar system is made up of a star--the Sun--eight planets, 146 moons, a bunch of comets, asteroids and space rocks, ice, and several dwarf planets, such as Pluto. The eight planets are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. Mercury is closest to the Sun. Neptune is the farthest.

The 8 planets in our solar system have their own properties and characteristics. The planets can be split into two groups, the inner small rocky terrestrial planets and the outer large gas giants. The asteroid belt is the area where most asteroids are found in our solar system, lying between the orbits of Mars and Jupiter

Jupiter has the shortest day of any planet in the solar system: it completes a full rotation on itself in less than 10 hours. ... It is one of the best candidates for finding extraterrestrial life in our solar system. Ganymede is huge - it's even larger than the planet Mercury - and is the only moon known to have its own magnetic field.

Which Planet Has The Shortest Day? Jupiter may be the largest planet in our solar system, but it's by no means sluggish. This gas giant completes a full rotation in roughly 9.9 hours, which seems nuts, but, actually, those with the ...

Jupiter has the shortest day in the solar system. One day on Jupiter takes only about 10 hours (the time it takes for Jupiter to rotate or spin around once), and Jupiter makes a complete orbit around the Sun (a year in Jovian time) in about ...

In our Solar System, there are eight planets. The planets in order from the Sun based on their distance are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. ... This planet has a long orbital duration, 84 years. A day on Uranus, on the other hand, is the shortest, lasting only 17 hours. Currently, 27 moons have been confirmed ...

A Venusian year is 225 days whereas the day based on the Sidereal Rotation is longer. Shortest Day. The planet that has the shortest day is Jupiter. A spot on surface of Jupiter if there was one would have midnight during the time we had one or maybe a third depending on what position the planet was in when we started our clock on Earth.

A day on Jupiter is only 10 hours long--the shortest in the solar system. A year on this giant planet is much longer, taking about 12 Earth years. Jupiter Fast Facts. Distance: 778,330,000 km (483,631,840 mi) Radius: 71,492 km ( 44,423 mi) Temperature:-108 °C ( -162 °F) Day length: 9.93 Earth hours; Year length: 11.86 Earth years; Number of ...

Our scientists and far-ranging robots explore the wild frontiers of our solar system. ... Saturn has the second-shortest day in the solar system. One day on Saturn takes only 10.7 hours (the time it takes for Saturn to rotate or spin around once), and Saturn makes a complete orbit around the Sun (a year in Saturnian time) in

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about 29.4 Earth ...

While we Earthlings count on a day being about 24 hours from sunup to sunup, the length of a single day on another planet is quite different. In some cases, they are very short, ...

The smallest planet in our solar system and nearest to the Sun, Mercury is only slightly larger than Earth's Moon. From the surface of Mercury, the Sun would appear more than three times as large as it does when viewed from Earth, and the sunlight would be as much as seven times brighter. ... One Mercury solar day (one full day-night cycle ...

While the length of our day may seem shorter or longer depending on a variety of factors, it is a constant in our lives. Our 24-hour day with on average 12 hours of daylight is something so consistent that it often falls into ...

Which planet has the shortest day? Jupiter, the largest planet in our solar system, has the shortest day at 9.9 hours. Which planet has the longest day and the shortest year? The answer to both questions is Mercury. It orbits the Sun every 88 days, and a Solar Day on Mercury lasts for two orbits which is 176 days.

4 days ago; The biggest planet in our solar system . explore; What Is the Weather Like on Other Planets? Each of the planets in our solar system experiences its own unique weather. explore; Is There Ice on Other Planets? Yes, there is ice beyond Earth! In fact, ice can be found on several planets and moons in our solar system.

Mercury, the closest planet to the Sun, has the shortest day in the solar system. Its day on Mercury lasts approximately 58 days and 15 hours. This relatively short duration is due to Mercury's rapid rotation on its axis. ... In ...

Study with Quizlet and memorize flashcards containing terms like The planet that has the shortest day is?, Which member of the solar system has an equatorial diameter of  $3.48 \times 10^4$  kilometers? The equatorial diameter of the Moon is about 3,476km, The planets known as "gas giants," or Jovians, include Jupiter, Uranus, and Saturn, Uranus, and Neptune and more.

The same is true for the other planets in our Solar System. ... is the planet's shortest, at 9 hours, 50 minutes, and 30 seconds. ... of the different planets in our Solar System, what ...

Orbit and Rotation. Jupiter has the shortest day in the solar system. One day on Jupiter takes only about 10 hours (the time it takes for Jupiter to rotate or spin around once), and Jupiter makes ...

Jupiter is the fastest spinning planet in our Solar System, rotating on average once in just under 10 hours. That is very fast, especially considering how large Jupiter is. This means that Jupiter has the shortest day of all the planets in the Solar System. Since Jupiter is a gas planet, it does not rotate as a solid sphere.

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On Mercury, one day can last for almost a year. Mercury completes an orbit of the sun in 88 Earth days, by far the fastest planet in the solar system. However, it's own "day" lasts much longer than an Earth day. In fact, it takes 59 Earth day for Mercury to rotate on its axis once.

The planet Mercury has the second shortest year in our solar system, with a year lasting approximately 88 Earth days. This is because Mercury orbits the Sun much faster than Earth due to its close ...

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