

How many planets in the solar system have moons





Overview

Up first are Mercury and Venus. Neither of them has a moon. Because Mercury is so close to the Sun and its gravity, it wouldn't be able to hold on to its own moon. Any moon would most

Next are the giant outer planets. They have lots of moons. Jupiter, for instance, has 95 known moons! The most well-known of Jupiter's moons are Io (pronounced eye-oh), Europa, and

As of June 8, 2023, Saturn has 146 moons. And that's not counting Saturn's beautiful rings! Saturn's moons have great names like Mimas, Enceladus, and Tethys. One of these moons, na.

Uranus has 28 known moons that we know of. Some of them are half made of ice. Lastly, Neptune has 16 known moons. One of Neptune's moons, Triton, is as big as dwarf planet Pluto.

We on Earth have just one moon, but some planets have dozens of them. Others don't have any. Which planets have moons, and which don't?

Let's go in order from the Sun.

Up first are Mercury and Venus. Neither of them has a moon. Because Mercury is so close to the Sun and its gravity, it wouldn't be able to hold on to its own moon. Any moon would most likely crash into Mercury or maybe go into orbit around the Sun and eventually get pulled into it.

Next are the giant outer planets. They have lots of moons. Jupiter, for instance, has 95 known moons! The most well-known of Jupiter's moons are Io (pronounced eye-oh).

Mars has two moons. Their names are Phobos and Deimos. Don't you wish our moon had a cool name like that?

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As of June 8, 2023, Saturn has 146 moons. And that's not counting Saturn's beautiful rings! Saturn's moons have great names like Mimas, Enceladus.



NASA/Joel Kowsky According to the NASA/JPL Solar System Dynamics team, the current tally of moons orbiting planets in our solar system is 293: One moon for Earth; two for Mars; 95 at Jupiter; 146 at Saturn; 28 at Uranus; 16 at Neptune; and five for dwarf planet Pluto. How many moons are there in our Solar System?

A plane is seen flying in front of the Moon on July 31, 2015, in Arlington, Virginia. According to the NASA/JPL Solar System Dynamics team, the current tally of moons orbiting planets in our solar system is 293: One moon for Earth; two for Mars; 95 at Jupiter; 146 at Saturn; 28 at Uranus; 16 at Neptune; and five for dwarf planet Pluto.

How many moons does Uranus have?

Uranus has 28 known moons that we know of. Some of them are half made of ice. Lastly, Neptune has 16 known moons. One of Neptune's moons, Triton, is as big as dwarf planet Pluto. To learn more about the moons in our solar system, visit the [NASA Solar System Exploration moons page](#).

How many moons orbit planets?

As of September 2009, astronomers have found at least 145 moons orbiting planets in our solar system. This number does not include the six moons of the dwarf planets, nor does this tally include the tiny satellites that orbit some asteroids and other celestial objects.

Which planets have their own moons?

As already noted, there are several dwarf planets, TNOs, and other bodies in the Solar System that also have their own moons. These consist mainly of the natural satellites that have been confirmed orbiting Pluto, Eris, Haumea, and Makemake.

How many moons does Mercury have?

This number does not include the six moons of the dwarf planets, nor does this tally include the tiny satellites that orbit some asteroids and other celestial objects. Of the terrestrial (rocky) planets of the inner solar system, neither Mercury nor Venus has any moons at all, Earth has one, and Mars has its two small moons.

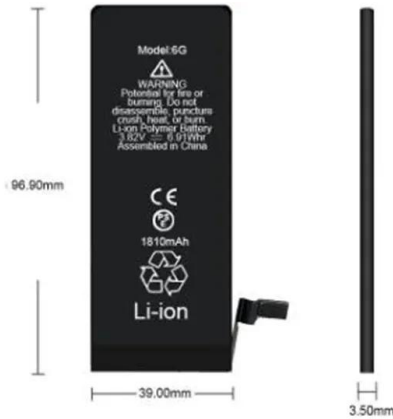
Do all planets have moons?



In our system, almost all major planets have moons. Many are naturally born from the leftover gas and dust from the planet's formation. Few others such as Saturn's Phoebe belonged to the Kuiper Belt and is believed to have been captured by the gas giant.



How many planets in the solar system have moons



Moons of the Solar System

As of September 2009, astronomers have found at least 145 moons orbiting planets in our solar system. This number does not include the six moons of the dwarf planets, nor does this tally ...

The Moons of the Solar System

(Notably, Mercury and Venus are the only planets in the solar system that do not have moons.) In the ensuing three decades, finding solar system moons largely fell to NASA spacecraft. After Voyager 2's flyby of Neptune in 1989, the total number of solar system moons had nearly doubled to 60.



Moons: Facts

Of the terrestrial (rocky) planets of the inner solar system, neither Mercury nor Venus have any moons at all, Earth has one and Mars has its two small moons. In the outer solar system, the gas giants Jupiter and Saturn and the ice giants ...

Solar System Exploration

The solar system has one star, eight planets, five dwarf planets, at least 290 moons, more than 1.3 million asteroids, and about 3,900 comets. We mean waaaaay out there in our solar system - where the forecast might not be quite what you think. Let's look at the



Solar system , Definition, Planets, Diagram, Videos, & Facts

4 ??? solar system, assemblage consisting of the Sun--an average star in the Milky Way Galaxy--and those bodies orbiting around it: 8 (formerly 9) planets with more than 210 known planetary satellites (moons); many asteroids, some with their own satellites; comets and other icy bodies; and vast reaches of highly tenuous gas and dust known as the interplanetary medium.



In Depth , Moons

Introduction Moons - also called natural satellites - come in many shapes, sizes and types. They are generally solid bodies, and few have atmospheres. Most planetary moons probably formed out the discs of gas and dust circulating around planets in the early



[How many moons does our solar system have?](#)

For millennia, human beings stared up at the night sky and were held in awe by the Moon. To many ancient cultures, it represented a deity, and its cycles were accorded divine significance. By the time of Classical Antiquity ...



Moons

There are more than 194 moons of the various planets, dwarf planets in the solar system. The planets Mercury and Venus do not have any moons and neither does the dwarf planet Ceres. Find out the number of moons each planet has and their names below.



[The Moons of the Solar System](#)

As of February 2024, the count stood at 298, distributed as follows: Earth 1, Mars 2, Jupiter 95, Saturn 146, Uranus 28, Neptune 16 -- and among the IAU-approved dwarf planets: Pluto 5, Haumea 2, Makemake 1, ...

In Depth , Our Solar System - NASA Solar System Exploration

There are more than 200 known moons in our solar system and several more awaiting confirmation of discovery. Of the eight planets, Mercury and Venus are the only ones with no moons. The giant planets Jupiter and Saturn lead our solar system's moon counts.





Planets 101: What they are and how they form , Astronomy

Though not technically planets, some of the moons in our solar system, like Europa and Enceladus, are commonly called ocean worlds. Rogue Planets : Do not orbit any star and drift through space on



List of Moons in the Solar System - Facts and information

List of Moons in the Solar System

Moon	Discovered	Discoverer	Distance from Planet (km)	Diameter (km)	Orbital Period (days)
Earth: 1					
Moon (Luna)	384,400	3,475	27.322		
Mars: 2					
Deimos	1877	Asaph Hall	23,460	12.4	
Phobos	1877	Asaph Hall	1.2624		



How Many Moons are in the Solar System?

However, 479 minor-planet moons have also been observed in the Solar System (as of Dec. 2022). This includes the 229 known objects in the asteroid belt with satellites, six Jupiter

All Moons in Our Solar System [2024 Update]

Planets Mercury and Venus have no moons. Other planets in the solar system have one or more moons orbiting them. As of June 2023, with 146 confirmed moons, Saturn is the planet that has the most moons in Solar System. Moons come in many shapes A





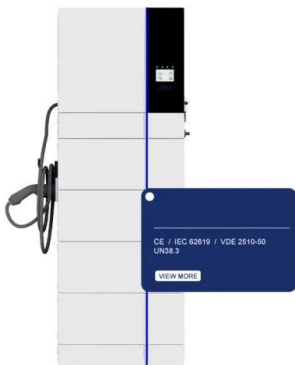
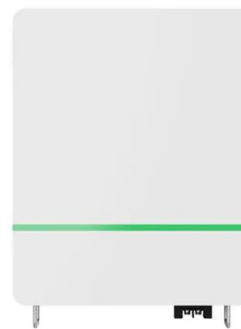
[How many moons are in the solar system?](#)

The International Astronomical Union (IAU) officially recognizes 288 planetary moons orbiting the solar system's eight worlds, according to NASA. But there are also a further 473 "small-body



How Many Planets In Our Solar System Have Moons?

How Many Moons Does Each Planet In Our Solar System Have? Mercury - 0 Venus - 0 Earth - 1 Mars - 2 Jupiter - 80 Saturn - 83 Uranus - 27 Neptune - 14 Pluto, which is technically no longer a planet, has 5 moons.



Moons of the Solar System

spheres. Most of the planetary moons probably formed from the discs of gas and dust circulating around planets in the early solar system. As of September 2009, astronomers have found at least 145 moons orbiting planets in our solar system. This number

[How Many Moons Does Each Planet Have?](#)

Eyes on the Solar System program, all rights belong to NASA Jupiter, the largest planet in our solar system, has a total of 79 known moons. Of these, 53 have official names, while 26 are still awaiting official designation. ...





[How Many Moons Does Each Planet Have?](#)

Which planet in our solar system has the most moons - Saturn or Jupiter? Learn some interesting facts about each planet's natural satellites. Media Credits The audio, illustrations, photos, and videos are credited beneath the media asset, except for promotional



294 Moons of the Planets , 2024 List , GO ASTRONOMY

MOONS OF ALL THE PLANETS Do you know all 294 moons of the planets (and dwarf planets) in our solar system? Well here they are! Every so often new moons are discovered for Jupiter and Saturn. Moons are listed by size from largest to smallest for a given



[List of moons , Britannica](#)

There are 171 moons, or natural satellites, orbiting the planets in our solar system; Earth, Mars, Jupiter, Saturn, Uranus, and Neptune have 1, 2, 66, 62, 27, and 13 moons, respectively. The following is a list of some of the major planetary moons, including those of

[How Many Moons Does Each Planet Have](#)

You probably already know that Earth has one moon. Aply named the Moon, it's the fifth largest in the solar system. It stabilizes our planet's wobble and helps regulate our climate. Mars Mars' two moons, Phobos and Deimos, are some of the smallest in the





Which planet has the most moons? The many moons of the solar system.

When we look up at our moon it feels singular, but, in fact, there are many moons in the solar system, belonging to different planets. Here are some fun facts about the other planet's moons



Our Solar System

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.



Solar System--Planets and Their Moons

Each of the outer planets has a magnetic field, a ring system, and many known moons, with more likely to be discovered. Pluto has no known rings and only five known moons. Several other ...

Moons of the Solar System

Moons -- also called satellites -- come in many shapes, sizes, and types. They are generally solid bodies, and few have atmo-spheres. Most of the planetary moons probably formed from the discs of gas and dust circulating around planets in the early solar





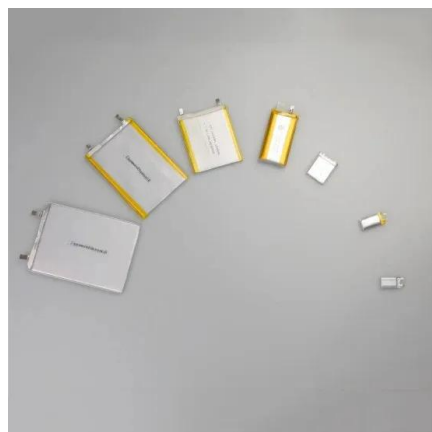
Moons in Our Solar System

There are 181 known moons in our Solar System which are orbiting planets and dwarf planets. Despite there being so many moons not every planet or dwarf planet has a moon. A table of planets and dwarf planets with the number of moons is below. Number of



Planet Sizes and Locations in Our Solar System

Mars, the red planet, is the seventh largest planet in our solar system. Mars is about half the width of Earth, and has an equatorial diameter of about 4,221 miles (6,792 kilometers). Mars is the fourth planet from the Sun, orbiting at an average distance of 141.6 million miles (227.9 million kilometers).



What Planets, Moons, and Places in the Solar System Have Water?

Our Blue Planet Clearly, the best place to find water in our solar system is on Earth. Look at our planet from orbit, and you can see how little land is on our surface compared to the water that is present. Even our moon, all gray and devoid of life, has signs of water

Solar system

4 ???· Solar system - Planets, Moons, Orbits: The eight planets can be divided into two distinct categories on the basis of their densities (mass per unit volume). The four inner, or ...





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