



# Place Value to 10,000

**CA Standards**  
**KEY** NS 1.3, **KEY** NS 1.5

Scientists describe the size of a planet or a moon by its diameter, or the distance through its middle. The table below shows the diameters of the largest moons in our solar system and the planet that each moon orbits.

Moon Sizes		
Moon	Planet	Diameter
Callisto	Jupiter	2,984 miles
Europa	Jupiter	1,944 miles
Ganymede	Jupiter	3,272 miles
Io	Jupiter	2,262 miles
Moon	Earth	2,160 miles
Titan	Saturn	3,198 miles
Triton	Neptune	1,680 miles

1. Which moons have diameters less than two thousand miles long?

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3. I am one of Jupiter's moons. My diameter does not have a 2 in the thousands place. The digit in the tens place is the same as the ones digit. Which moon am I?

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5. If for each moon you switched the thousands digit with the hundreds digit, I would have the largest diameter. Which moon am I?

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2. Which moons' diameters have a 2 in the hundreds place?

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4. Suppose a moon in another solar system has a diameter greater than Triton's and less than Europa's. How many different digits could the diameter have in the hundreds place? What are they?

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6. Allison added the diameters of three moons. She got a total that had a 0 in the ones place. One of these was Triton. Which other moon had to be in the group?

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