

## Scale of the Planets

Scale: 300 cm = 3,666,200,000 miles. To find the scale: divide 3,666,200,000 by 300.

This makes 1 cm = 12,220,666 miles. Rounded off to the nearest thousand miles is 12,221,000 miles.

**Round the centimeter answers off to the nearest centimeter and the percentage to the nearest thousandth.**

- Pluto: 3,666,200,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Neptune: 2,798,800,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Uranus: 1,786,400,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Saturn: 888,200,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Jupiter: 483,600,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Mars: 141,000,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Earth: 92,969,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Venus: 67,230,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_
- Mercury: 35,980,000 miles divided by 12,221,000 miles per centimeter = \_\_\_\_\_ cm to scale.  
\*Percentage Distance: \_\_\_\_\_ Where Found: \_\_\_\_\_

## Scale of the Planets--Answers

Scale: 300 cm = 3,666,200,000 miles. To find the scale: divide 3,666,200,000 by 300.

This makes 1 cm = 12,220,666 miles. Rounded off to the nearest thousand miles is 12,221,000 miles.

**Round the centimeter answers off to the nearest centimeter and the percentage to the nearest thousandth.**

- Pluto: 3,666,200,000 miles divided by 12,221,000 miles per centimeter = 300 cm to scale.  
\*Percentage Distance: 100% Where Found: All the way to the end.
- Neptune: 2,798,800,000 miles divided by 12,221,000 miles per centimeter = 229 cm to scale.  
\*Percentage Distance: 76% Where Found: three-fourths the way to Pluto
- Uranus: 1,786,400,000 miles divided by 12,221,000 miles per centimeter = 146 cm to scale.  
\*Percentage Distance: 49% Where Found: one-half the way to Pluto
- Saturn: 888,200,000 miles divided by 12,221,000 miles per centimeter = 73 cm to scale.  
\*Percentage Distance: 24% Where Found: one-fourth the way to Pluto
- Jupiter: 483,600,000 miles divided by 12,221,000 miles per centimeter = 40 cm to scale.  
\*Percentage Distance: 13% Where Found: one-half the way to Saturn
- Mars: 141,000,000 miles divided by 12,221,000 miles per centimeter = 12 cm to scale.  
\*Percentage Distance: 4% Where Found: one-third the way to Jupiter
- Earth: 92,969,000 miles divided by 12,221,000 miles per centimeter = 8 cm to scale.  
\*Percentage Distance: 2.5% Where Found: two-thirds the way to Mars
- Venus: 67,230,000 miles divided by 12,221,000 miles per centimeter = 6 cm to scale.  
\*Percentage Distance: 2% Where Found: three-fourths the way to Earth
- Mercury: 35,980,000 miles divided by 12,221,000 miles per centimeter = 3 cm to scale.  
\*Percentage Distance: 1% Where Found: one-half the way to Venus