**Distance of Planets from the Sun to Scale Assignment**

1. Fill out the table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Body** | **Distance in**(millions of km) | **÷** | **Scale** | **Scale Distance** (cm) |
| [Mercury](http://www.nineplanets.org/mercury.html) | 57.95 |  | 50 | 1.2 cm |
| [Venus](http://www.nineplanets.org/venus.html) | 108.11 |  |  |  |
| [Earth](http://www.nineplanets.org/earth.html) | 149.57 |  |  |  |
| Moon (dist. from Earth) | 0.384 |  |  |  |
| [Mars](http://www.nineplanets.org/mars.html) | 227.84  |  |  |  |
| Ceres | 414.0 |  |  |  |
| [Jupiter](http://www.nineplanets.org/jupiter.html) | 778.14 |  |  |  |
| [Saturn](http://www.nineplanets.org/saturn.html) | 1427.0 |  |  |  |
| [Uranus](http://www.nineplanets.org/uranus.html) | 2870.3 |  |  |  |
| [Neptune](http://www.nineplanets.org/neptune.html) | 4499.9 |  |  |  |
| [Pluto](http://www.nineplanets.org/pluto.html) | 5913.0 |  |  |  |
| Eris | 10,200.0 |  |  |  |

1. Use a piece of Adding Machine Tape about 2 meters long
2. Draw the edge of the sun on one edge.
3. Using a ruler, draw the planets the correct scale distance from the sun (the middle of the planet should be at the right distance.
4. Label each planet with:
	1. Name
	2. Distance from sun

See example below

* 1. Scale distance from sun
1. Color the planets
2. Put the Scale on the paper
3. Title the paper

SUN

Name

Date

Hour

Scale Distance of the Planets from the Sun

Planets are not to scale; at this scale they would be microscopic

Scale 1cm= 50 million km

Mercury

Distance from Sun: 57,950,000 km

Scale Distance: 1.2 cm