

Name _____ Date _____

Description of Investigation and Student Report
Be an InvestigatorDear Investigator _____,
(name)

I am creating an exhibit about the planets for the Earth and Sky Museum. I want to use a circle as a model of each planet. I know each circle can't have the same diameter as the planet it represents. The museum wouldn't be big enough to hold it.

I decided to measure the diameter of the circles in centimeters and have each centimeter stand for 1,000 miles. I figure if I do it this way the people who come to the exhibit will still be able to get an idea of the differences in sizes of the planets.

I'm in a rush to get this exhibit finished. Could you create a circle to represent each planet?

Sincerely,
Sky Smith

Name _____ Date _____

Information

Distance from the Sun to each Planet (in millions of miles)

Planet	Mercury	Venus	Earth	Mars	Jupiter
Millions of Miles	35.98	67.24	92.96	141.64	483.72

Planet	Saturn	Uranus	Neptune	Pluto
Millions of Miles	890.60	1777.02	2799.44	3654.41

Diameter of each Planet (in miles)

Planet	Mercury	Venus	Earth	Mars	Jupiter
Millions of Miles	3,030	7,520	7,925	4,225	88,730

Planet	Saturn	Uranus	Neptune	Pluto
Millions of Miles	75,000	31,440	30,200	1,865

Name _____ Date _____

**Be an Investigator
Student Report Sheet**

Dear Sky,

I'm sending you the circles I cut out to represent each planet for the Earth and Sky Museum exhibit. The table below shows the real diameter of the planet and the diameter of the circle I made for the model. Each centimeter stands for 1,000 miles as you suggested.

Name of Planet	Actual Diameter	Diameter for model in centimeters (1 cm = 1000 mi)
Mercury		
Venus		
Earth		
Mars		
Jupiter		
Saturn		
Uranus		
Neptune		
Pluto		

I thought you would be interested to know how I made the circles. This is how I did it.

Good luck with your exhibit.

Yours truly,

Investigator _____
(your name)