

SOLAR SYSTEM SCALE LAB

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1. In our scaled model, what is the diameter of the Sun *in inches*? _____ in
What is the actual equatorial diameter of the Sun *in miles*? _____ mi
2. In our model, how far is Mercury from the Sun *in feet*? _____ ft
What is the actual distance *in miles*? _____ mi
3. What planet is closest in size to the Earth? _____
What is the diameter *in miles* of this planet? _____ mi
4. If the Sun was a hollow ball, how many Earths would fit inside it? _____
5. In our scaled model of the Solar System, how big is the Earth *in inches*? _____ in
What is the actual equatorial diameter of the Earth *in miles*? _____ mi
6. Mars's orbit takes it just inside the _____.
How many Earth Days does it take Mars to orbit the Sun? _____
True or False: The equatorial diameter of Mars is **LARGER** than that of Earth. _____
7. What is the model-scale diameter of the Solar System's largest planet *in inches*? _____ in
What is the actual equatorial diameter of this planet *in miles*? _____ mi
8. In our model, how far is Saturn from the Sun *in feet*? _____ ft
How far is it *in miles*? _____ mi
How wide are Saturn's rings? _____ mi
9. Which planet is closest to the Sun? _____
Which planet has been known as the "king of the gods"? _____
Which planet is known as the "Red Planet"? _____
10. Why does our scaled model of the Solar System not have Uranus, Neptune, or Pluto?
(Hint: In our model, Uranus would be over 1,600 feet from the Sun and is actually 1,783,939,400 miles from the Sun).
11. Please list **3** "things" that you learned about any of the planets today that are NOT listed above.
(For example, What is another name for the Sun? How thick are Saturn's rings?)

1)

2)

3)

****Bonus question (optional): Give one reason why Pluto is now known as a Dwarf Planet, and not a "real" planet.**