## Real and Scaled Sizes of the Sun and Planets

	Real Diameter	Scaled Diameter (About)	Earth Diameters (About)
Sun	1,392,000 km	14 cm	109
Mercury	4,878 km	$\frac{1}{20}$ cm	$\frac{2}{5}$
Venus	12,104 km	A bit more than $\frac{1}{10}$ cm	1
Earth	12,756 km	A bit more than $\frac{1}{10}$ cm	1
Mars	6,794 km	A bit less than $\frac{1}{10}$ cm	$\frac{1}{2}$
Jupiter	142,796 km	A bit more than 1 cm	11
Saturn	120,660 km	A bit more than 1 cm	9
Uranus	51,118 km	$\frac{1}{2}$ cm	4
Neptune	49,523 km	$\frac{1}{2}$ cm	4
Pluto	2,300 km	$\frac{1}{50}$ cm	$\frac{1}{5}$

The *scale factor* is 1 to 10 billion. Every centimeter in this scale model solar system represents 10 billion centimeters in the real solar system!