

Solar System Sizes in Earth Diameters

	DIAMETER (in Earth diameters)
MOON	0.23
MERCURY	0.4
VENUS	0.9
SUN	107
MARS	0.5
JUPITER	11
SATURN	9
VEGA (NEARBY STAR)	149

Ptolemy's Diameters from Table 7.11 (use rightmost column)

	Mean Distance (Earth radii)	Angular Diameter (fraction of Sun)	Linear Diameter (Earth diameters)
Moon	48	1 1/3	7/24
Mercury	115	1/15	1/27
Venus	622 1/2	1/10	3/10
Sun	1,210	1	5 1/2
Mars	5,040	1/20	1 1/7
Jupiter	11,504	1/12	4 43/120
Saturn	17,026	1/18	4 3/10
1st magnitude stars	20,000	1/20	4 11/20

Solar System Distances in Earth Radii

	DISTANCE (in Earth radii)	FROM
MOON	58	Earth
MERCURY	7400	Sun
VENUS	17000	Sun
SUN	23500	Earth
MARS	36000	Sun
JUPITER	122000	Sun
SATURN	224000	Sun
VEGA (NEARBY STAR)	37000000000	Sun

Ptolemy's Greatest and Least Distances from Table 7.10

	Least Distance (Earth radii)	Greatest Distance (Earth radii)
Moon	33	64
Mercury	64	166
Venus	166	1,079
Sun	1,160	1,260
Mars	1,260	8,820
Jupiter	8,820	14,187
Saturn	14,187	19,865