

Solar System Distances	Type	distance from the sun (km)	distance from the sun (au)	Distance from the sun (Relative to Mercury)	Distance from the sun (Relative to Pluto)	Distance to the Sun (relative to Neptune)	orbital period (Earth years)
Basketball	Sporting Good						
Mercury	Planet	58,110,000	0.39	1.00	0.01	0.01	0.24
Venus	Planet	107,280,000	0.72	1.85	0.02	0.02	0.62
Earth	Planet	149,000,000	1	2.56	0.03	0.03	1
Mars	Planet	226,480,000	1.52	3.90	0.04	0.05	1.88
Ceres	Dwarf Planet	411,240,000	2.76	7.08	0.07	0.09	4.6
Jupiter	Planet	774,800,000	5.2	13.33	0.13	0.17	11.86
Saturn	Planet	1,421,460,000	9.54	24.46	0.24	0.32	29.46
Uranus	Planet	2,857,820,000	19.18	49.18	0.48	0.64	84.01
Neptune	Planet	4,478,940,000	30.06	77.08	0.75	1.00	164.8
Pluto	Dwarf Planet	5,960,000,000	40	102.56	1.00		247.7
Haumea	Dwarf Planet	6,407,000,000	43	110.26			285.4
Makemake	Dwarf Planet	6,705,000,000	45	115.38			309.88
Eris	Dwarf Planet	10,132,000,000	68	174.36			557
Proxima Centauri	Star	38,633,992,094,862	259288.5375	664842.40			
Betelgeuse	Star	6,054,229,249,011,860	40632411.07	104185669.40			
Moon	Moon	363,000km to 407,000km from Earth					
Sun	Star						

Solar System Sizes	Type	Diameter (miles)	Diameter (meters)	Diameter (km)	relative size (Mercury)	relative size (Ceres)	relative size (Earth)	relative size (Sun)	relative size (Sun radius 96 inches)	Diameter rounded km/1000	circumference
Basketball	Sporting Good	0.00015	0.2426	0.0002426							
Mercury	Planet	3,031	4,878,000	4,878	1	5	3/8	0.003	0.334	5	15,325
Venus	Planet	7,521	12,104,000	12,104	2 1/2	12 1/2	1	0.009	0.830	12	38,026
Earth	Planet	7,926	12,756,000	12,756	2 3/5	13 2/9	1	0.009	0.875	13	40,074
Mars	Planet	4,217	6,787,000	6,787	1 2/5	7	1/2	0.005	0.465	7	21,322
Ceres	Dwarf Planet	600	965,000	965	1/5	1	0	0.001	0.066	1	3,032
Jupiter	Planet	88,732	142,800,000	142,800	29 2/7	148	11 1/5	0.102	9.792	143	448,619
Saturn	Planet	74,565	120,000,000	120,000	24 3/5	124 1/3	9 2/5	0.086	8.229	120	376,991
Uranus	Planet	31,763	51,118,000	51,118	10 1/2	53	4	0.037	3.505	51	160,592
Neptune	Planet	30,601	49,248,000	49,248	10	51	3 6/7	0.035	3.377	49	154,717
Pluto	Dwarf Planet	1,491	2,400,000	2,400	1/2	2 1/2	1/5	0.002	0.165	2	7,540
Haumea	Dwarf Planet	1,193	1,920,000	1,920	2/5	2	1/7	0.001	0.132	2	6,032
Makemake	Dwarf Planet	889	1,430,000	1,430	2/7	1 1/2	1/9	0.001	0.098	1	4,492
Eris	Dwarf Planet	1,445	2,326,000	2,326	1/2	2 2/5	1/5	0.002	0.159	2	7,307
Betelgeuse	Star	1,020,912,553	1,643,000,000,000	1,643,000,000	336818 3/8	1702590 2/3	128802 1/8	1173.572	112662.909	1,643,000	5,161,636,730
Moon	Moon	2,160	3,476,000	3,476	5/7	3 3/5	1/4	0.002	0.238	3	10,920
Sun	Star	869,919	1,400,000,000	1,400,000	287	1450 7/9	109 3/4	1.000	96.000	1,400	4,398,230