



Example Model

Earth-Sun Distances

Actual

Diameter of the sun¹
864,340 mi



Gross Approximation

Diameter of the sun
~ 800,000 mi

Diameter of Earth²
7,917.5 mi



Diameter of Earth
~ 8,000 mi

Distance Earth – Sun²
92.96 million mi



Distance Earth - Sun
~ 80 million mi

¹Wikipedia (September 2019) “*Earth*.” Retrieved from: <https://en.wikipedia.org>

²Wikipedia (September 2019) “*Sun*.” Retrieved from: <https://en.wikipedia.org>

Gross Approximation

Diameter of the sun
~ 800,000 mi



Order of Magnitude

Diameter of the sun
100 units

Diameter of Earth
~ 8,000 mi



Diameter of Earth
1 unit

Distance Earth - Sun
~ 80 million mi



Distance Earth - Sun
10,000 units

“The diameter of the sun is about 108 times that of the diameter of Earth. The average distance between the Earth and the Sun is 108 times the sun's diameter.”³

³ Wanderlust (September 2019) “108: The Number that Unifies The Big Picture with The Present Moment.”
Retrieved from: <https://wanderlust.com>

Order of Magnitude

Conversion to Imperial Units

Diameter of the sun
100 units



Diameter of the sun
~ 8.3 feet

Diameter of Earth
1 unit



Diameter of Earth
1 inch

Distance Earth - Sun
10,000 units



Distance Earth - Sun
~ 3 city blocks



Diameter of Earth
7,917.5 mi

Distance Earth - Sun²
92.96 million mi



Diameter of the sun¹
864,340 mi

1" marble

3 city blocks

8' ball