

HARMONICS TO Earth



ALL WITHIN .5 PERCENT UNLES MARKED

1. Self ODR – farthest distance from sun over closest

1.0339904826648538

NEARLY A QUARTER TONE 1.03125

2. Solar Day

PLUTO 1.5969200006023574405

Saturn PLANET → **1.126054285, WITHIN 0.6 PERCENT**

3. Year Length

Mars 1.8808, Moon 1.6711,

4. Mass

Jupiter → **1.2415514970698172268 WITHIN 0.9 PERCENT**

5. Angular Momentum

Eris 1.00

Ceres 1.2,

6. Radius

Mars PLANET → **1.8796160624197282362,**

Solar Day LENGTHS

Jupiter PLANET → 1.2089574944149688976`4.999522094492023,

Saturn PLANET → 1.1260542856243471336`4.999545618333024,

Uranus PLANET → 1.3921504270458921869`4.999573692428695,

Neptune PLANET → 1.4897413123477241246`4.999558703546783,

CERES 1.3220164803969684986`3.9998585975928687,

PLUTO 1.5969200006023574405`6.743152803560701,

ERIS 1.0791723833394362573`2.999993258019531
All but Mercury , Venus and Mars (even these are within 3 × %) !!!!

Out[15]= Earth HARMONICS TO

Out[16]= 1.03399

In[]:= $2^{\text{FractionalPart}[\text{Log}[2, \text{EntityValue}["\text{Planet}", "SolarDay", "EntityAssociation"] / \text{Entity}["\text{Planet}", "Earth"]["SolarDay"]]]}$

Out[]:= $\langle \left\{ \begin{array}{l} \text{Mercury} \rightarrow 1.37452, \text{ Venus} \rightarrow 1.824224, \text{ Earth} \rightarrow 1.000000, \text{ Mars} \rightarrow 1.0274912, \\ \text{Jupiter} \rightarrow 0.82716, \text{ Saturn} \rightarrow 0.88806, \text{ Uranus} \rightarrow 0.71831, \text{ Neptune} \rightarrow 0.67126 \end{array} \right\} \rangle$

In[]:= $2^{\text{FractionalPart}[\text{Log}[2, \text{Entity}["\text{Planet}", "Earth"]["SolarDay"] / \text{EntityValue}["\text{Planet}", "SolarDay", "EntityAssociation"]]]}$

Out[]:= $\langle \left\{ \begin{array}{l} \text{Mercury} \rightarrow 0.72753, \text{ Venus} \rightarrow 0.548178, \text{ Earth} \rightarrow 1.000000, \text{ Mars} \rightarrow 0.9732443, \\ \text{Jupiter} \rightarrow 1.2090, \text{ Saturn} \rightarrow 1.1261, \text{ Uranus} \rightarrow 1.3922, \text{ Neptune} \rightarrow 1.4897 \end{array} \right\} \rangle$

In[]:= $2^{\text{FractionalPart}[\text{Log}[2, \text{Entity}["\text{Planet}", "Earth"]["SolarDay"] / \text{Entity}["\text{MinorPlanet}", "Ceres"]["SolarDay"]]]}$

Out[]:= 1.322

In[]:= $2^{\text{FractionalPart}[\text{Log}[2, \text{Entity}["\text{MinorPlanet}", "Pluto"]["SolarDay"] / \text{Entity}["\text{Planet}", "Earth"]["SolarDay"]]]}$

Out[]:= 1.596920

In[]:= $2^{\text{FractionalPart}[\text{Log}[2, \text{Entity}["\text{MinorPlanet}", "Eris"]["SolarDay"] / \text{Entity}["\text{Planet}", "Earth"]["SolarDay"]]]}$

Out[]:= 1.08

HARMONICS TO Earth

YEAR LENGTHS

Mars 1.8808, Moon 1.6711, Jupiter 1.4828, Uranus 1.312,

```
In[ ]:= 2^FractionalPart[Log[2, EntityValue["Planet", "OrbitPeriod", "EntityAssociation"] /
Entity["Planet", "Earth"]["OrbitPeriod"]]]
```

```
Out[ ]:= { Mercury → 0.963370, Venus → 0.6151866, Earth → 1.0000000, Mars → 1.8808149,
Jupiter → 1.4828011, Saturn → 1.8404366, Uranus → 1.3127404, Neptune → 1.2874098 }
```

```
In[ ]:= 2^FractionalPart[Log[2, Entity["Planet", "Earth"]["OrbitPeriod"] /
EntityValue["Planet", "OrbitPeriod", "EntityAssociation"]]]
```

```
Out[ ]:= { Mercury → 1.038023, Venus → 1.6255232, Earth → 1.0000000, Mars → 0.5316844,
Jupiter → 0.6743993, Saturn → 0.5433493, Uranus → 0.7617652, Neptune → 0.7767535 }
```

```
In[ ]:= 2^FractionalPart[Log[2, Entity["MinorPlanet", "Pluto"]["OrbitPeriod"] /
Entity["Planet", "Earth"]["OrbitPeriod"]]]
```

```
Out[ ]:= 1.9368464
```

```
In[ ]:= 2^FractionalPart[Log[2, Entity["MinorPlanet", "Ceres"]["OrbitPeriod"] /
Entity["Planet", "Earth"]["OrbitPeriod"]]]
```

```
Out[ ]:= 1.1500286
```

```
In[ ]:= 2^FractionalPart[Log[2, Entity["MinorPlanet", "Eris"]["OrbitPeriod"] /
Entity["Planet", "Earth"]["OrbitPeriod"]]]
```

```
Out[ ]:= 1.0877
```

```
In[ ]:= 2^FractionalPart[
Log[2, Entity["Planet", "Earth"]["OrbitPeriod"] / Moon PLANETARY MOON ["OrbitPeriod"]]]
```

```
Out[ ]:= 1.6711
```

```
In[ ]:= my = 2^FractionalPart[Log[2,
EntityValue["Planet", "OrbitPeriod"] / Entity["Planet", "Mercury"]["OrbitPeriod"]]]
```

```
Out[ ]:= {1.000000, 1.277155, 1.038023, 1.952329, 1.539181, 1.910415, 1.362654, 1.336361}
```

```
In[ ]:= MatrixForm[%]
```

```
Out[ ]/MatrixForm=
```

$$\begin{pmatrix} 1.000000 \\ 1.277155 \\ 1.038023 \\ 1.952329 \\ 1.539181 \\ 1.910415 \\ 1.362654 \\ 1.336361 \end{pmatrix}$$

```
In[ ]:= Export["mercyear.xls", my, "XLS"]
```

```
Out[ ]:= mercyear.xls
```

```
In[ ]:= SystemOpen["mercyear.xls"]
```

HARMONICS OF FARTHEST PT OVER NEAREST TO SUN FOR EACH PLANET

```
In[ ]:= 2^FractionalPart[Log[2, EntityValue["Planet", "Aphelion", "EntityAssociation"] /
  EntityValue["Planet", "Perihelion", "EntityAssociation"]]]
```

```
Out[ ]:= <| Mercury → 1.5177206, Venus → 1.0136388, Earth → 1.03398839, Mars → 1.20607457,
  Jupiter → 1.10170720, Saturn → 1.114502, Uranus → 1.09900527, Neptune → 1.0173205 |>
```

```
In[ ]:= Entity["MinorPlanet", "Ceres"]["Aphelion"] / Entity["MinorPlanet", "Ceres"]["Perihelion"]
```

```
Out[ ]:= 1.1733465
```

```
In[ ]:= Entity["MinorPlanet", "Pluto"]["Aphelion"] / Entity["MinorPlanet", "Pluto"]["Perihelion"]
```

```
Out[ ]:= 1.67
```

```
In[ ]:= Entity["MinorPlanet", "Eris"]["Aphelion"] / Entity["MinorPlanet", "Eris"]["Perihelion"]
```

```
In[ ]:= 2.5847131940170787205`4.087973628208405 / 2
```

```
Out[ ]:= 1.292
```

```
In[ ]:= Moon PLANETARY MOON ["Aphelion"] / Moon PLANETARY MOON ["Perihelion"]
```

```
Out[ ]:= Missing[UnknownProperty, {PlanetaryMoon, Aphelion}]
Missing[UnknownProperty, {PlanetaryMoon, Perihelion}]
```

HARMONICS TO Earth

MASS

Jupiter → 1.242, Saturn → 1.487, Uranus → 1.817, Neptune → 1.072

Mercury → 1.131, Venus → 1.227,

CERES 1.68, MOON 1.318

PLUTO 1.089

```
In[ ]:= 2^FractionalPart[Log[2,
  EntityValue["Planet", "Mass", "EntityAssociation"] / Entity["Planet", "Earth"]["Mass"]]]
```

```
Out[ ]:= { | Mercury → 0.884, Venus → 0.815, Earth → 1.000, Mars → 0.860,
  Jupiter → 1.242, Saturn → 1.487, Uranus → 1.817, Neptune → 1.072 | }
```

```
In[ ]:= 2^FractionalPart[Log[2,
  Entity["Planet", "Earth"]["Mass"] / EntityValue["Planet", "Mass", "EntityAssociation"]]]
```

```
Out[ ]:= { | Mercury → 1.131, Venus → 1.227, Earth → 1.000, Mars → 1.163,
  Jupiter → 0.805, Saturn → 0.673, Uranus → 0.550, Neptune → 0.933 | }
```

```
In[ ]:= 2^FractionalPart[
  Log[Entity["Planet", "Earth"]["Mass"] / Entity["MinorPlanet", "Eris"]["Mass"]]]
```

```
Out[ ]:= 1.84
```

```
In[ ]:= 2^FractionalPart[
  Log[Entity["Planet", "Earth"]["Mass"] / Entity["MinorPlanet", "Pluto"]["Mass"]]]
```

```
Out[ ]:= 1.089
```

```
In[ ]:= 2^FractionalPart[
  Log[Entity["Planet", "Earth"]["Mass"] / Entity["MinorPlanet", "Ceres"]["Mass"]]]
```

```
Out[ ]:= 1.68
```

```
In[ ]:= 2^FractionalPart[Log[Entity["Planet", "Earth"]["Mass"] / Moon PLANETARY MOON ["Mass"]]]
```

```
Out[ ]:= 1.318
```

Earth by Radius

Mars PLANET → 1.8796160624197282362, **Venus** PLANET → 1.0527460865637770521,

PLUTO 1.338559703896685971

Uranus PLANET → 1.990553426905502779,

Mercury PLANET → 1.3056951196185322677,

In[]:=

2^FractionalPart[Log[2, EntityValue["Planet", "Radius", "EntityAssociation"] / Entity["Planet", "Earth"]["Radius"]]]

Out[]:= { **Mercury** → 0.766, **Venus** → 0.950, **Earth** → 1.0000000, **Mars** → 0.5320, **Jupiter** → 1.372, **Saturn** → 1.144, **Uranus** → 1.991, **Neptune** → 1.93 }

2^FractionalPart[Log[2, Entity["Planet", "Earth"]["Radius"] / EntityValue["Planet", "Radius", "EntityAssociation"]]]

Out[]:= { **Mercury** → 1.31, **Venus** → 1.053, **Earth** → 1.0000000, **Mars** → 1.8796, **Jupiter** → 0.7287, **Saturn** → 0.8742, **Uranus** → 0.502, **Neptune** → 0.517 }

2^FractionalPart[Log[2, Entity["Planet", "Earth"]["Radius"] / Entity["MinorPlanet", "Pluto"]["Radius"]]]

Out[]:= 1.3386

2^FractionalPart[Log[2, Entity["Planet", "Earth"]["Radius"] / Entity["MinorPlanet", "Eris"]["Radius"]]]

Out[]:= 1.370

2^FractionalPart[Log[2, Entity["Planet", "Earth"]["Radius"] / Entity["MinorPlanet", "Ceres"]["Radius"]]]

Out[]:= 1.694

Earth Ang Mom

Eris 1.00!!!!!!

Ceres 1.2, Mars 1.21, Pluto 1.21, Saturn 1.05