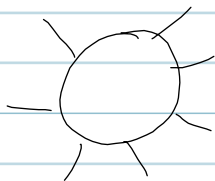
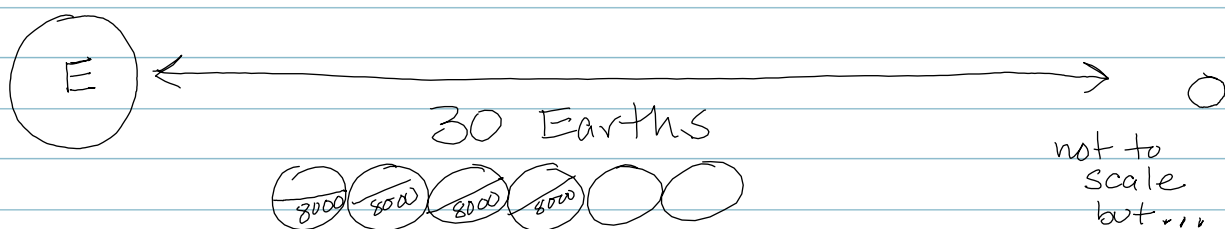


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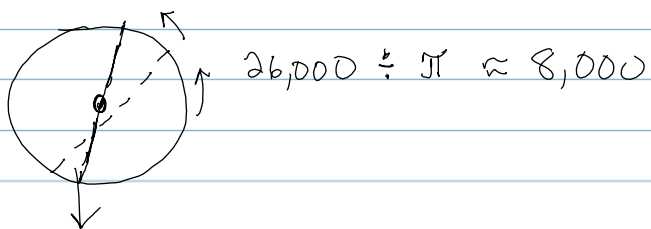


Earth would be
off the page & too
small to see...

Sun is over 99% of solar system's mass.



Earth's diameter $\approx 8,000 * 30$



diameter - chord that intersects center

How far moon from Earth? $\approx 240,000$ miles

The moon's diameter is about $\frac{1}{4}$ of Earth's.

$$8,000 \div 4 = 2,000$$

$$8,000 \cdot \frac{1}{4} = 2,000$$

$$\frac{4}{1} \cdot \frac{1}{4} = \frac{4}{4} = 1 \text{ reciprocal}$$

The Earth is ≈ 100 suns away from SUN.

The Moon is ≈ 30 Earths from Earth.

1 AU = about 100 suns

Sun is $V = 10^3$ of Earth

1,300,000 ~~of~~ Earth

Sun's diameter is about 100 Earths.

1,000,000 Earths to fill the volume
of sun.

Mercury - no atmosphere (closest to sun)

Venus - same size as Earth; hottest (atmosphere) ^{thick}

Earth - 70% water (moon)

Mars - 2 moons (1/10 dense as Earth)

Astroid belt

Jupiter - largest (gas) 4 moons (dozens small)

Saturn - 200,000 km wide ring

Uranus - (similar to Neptune's size)

Neptune - blue (methane)

Piuto - "year" is 250 Earth year

How wide is solar system?

Which is more dense?

MOON

1/6 E

MARS

1/10 E