

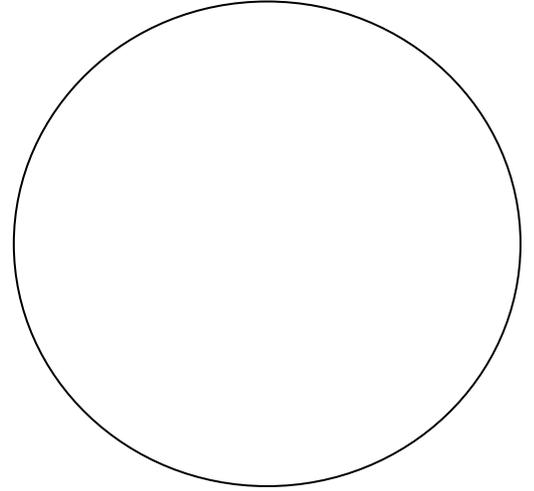
# THE SOLAR SYSTEM

NAME \_\_\_\_\_ HOUR \_\_\_\_\_



# Mercury

- DAY= \_\_\_\_\_ earth days (rotation)
- YEAR= \_\_\_\_\_ earth days (revolution)
- Named after



- \_\_\_\_\_ C during day
- \_\_\_\_\_ C during night

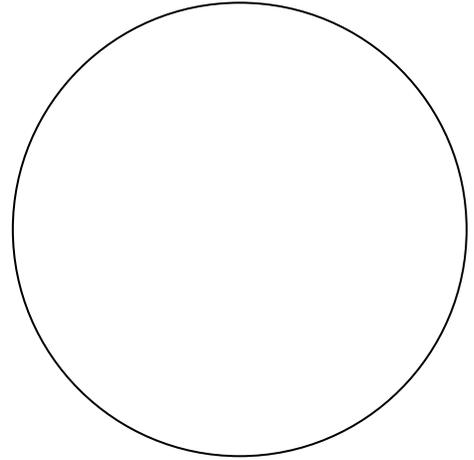
- 
- 
- 

• can't burn up \_\_\_\_\_, so many

• \_\_\_\_\_ rotation

# Venus

- DAY= \_\_\_\_\_ earth days
- YEAR= \_\_\_\_\_ days
- Named after



- \_\_\_\_\_ rotation (sun rises in west)
- 
- thick
- 
- 
- Rocks soft \_\_\_\_\_
- 
- 
- (crushes spacecraft)
- Nickname=

# Earth

- 

- 1 moon- \_\_\_\_\_

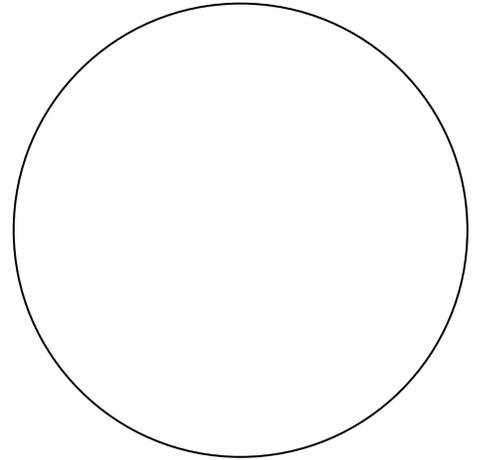
- has atmosphere of \_\_\_\_\_ and \_\_\_\_\_

- 75%

- 

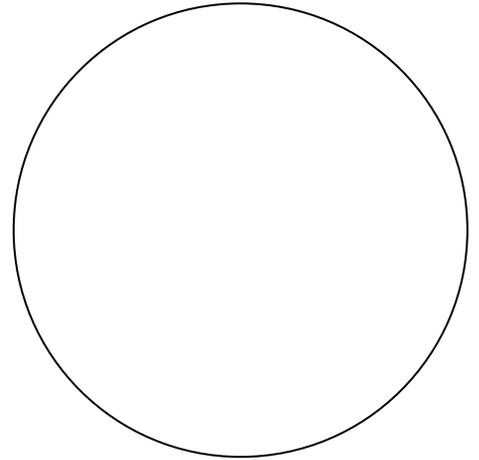
- \_\_\_\_\_ of axis (allows for 4 seasons and \_\_\_\_\_)

- \_\_\_\_\_ rotation



# Mars

- DAY = \_\_\_ hrs \_\_\_ min
- YEAR = \_\_\_ year + \_\_\_ days
- Named after



- \_\_\_\_\_ rotation
- “red” planet from

- 
- polar
  - river
  - 2 moons =
  - largest

- Temperature =

# Asteroid Belt

## Asteroids—

1. Asteroid belt—zone between  
\_\_\_\_\_ and \_\_\_\_\_  
\_\_\_\_\_

2. Origin of asteroid belt

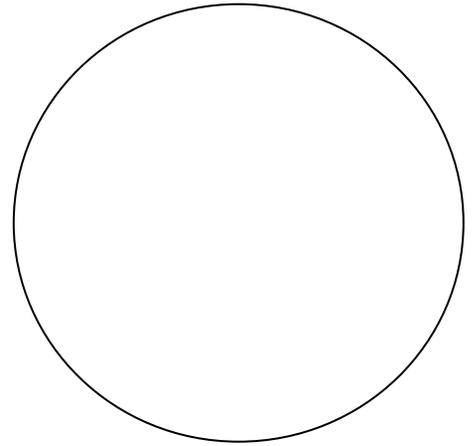
a. a planet

b. Jupiter's gravity

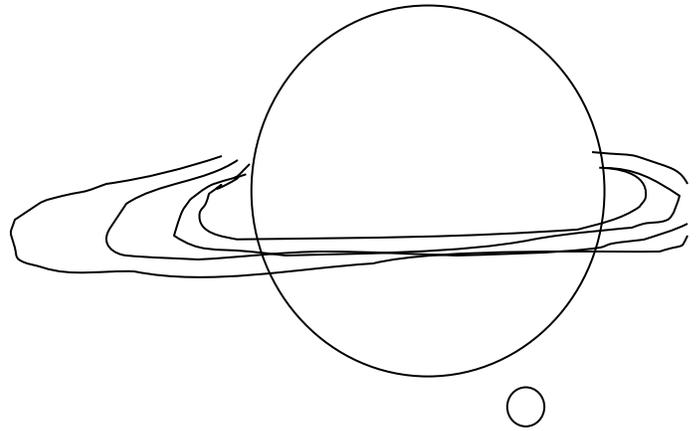
c. a planet formed but

# Jupiter

- \_\_\_ planet, day= \_\_\_ hrs  
year= \_\_\_ yrs
- Greatest volume (\_\_\_\_\_  
\_\_\_\_\_ than others)
- Greatest mass (\_\_\_\_\_  
\_\_\_\_\_ than all others  
combined)
- Made of \_\_\_\_\_ and \_\_\_\_\_ [why  
not a star?
  
- Red spot=
- Named after
- \_\_\_ moons
- Io-most \_\_\_\_\_ object in the  
solar system
- Callisto- has \_\_\_\_\_
- Ganymede- \_\_\_\_\_ in the solar  
system and has \_\_\_\_\_
- Europa- has \_\_\_\_\_ (maybe  
\_\_\_\_\_?)



# Saturn



- \_\_\_ planet
- day \_\_\_ hr \_\_\_ min
- year = \_\_\_ earth yr

- 

(would float in water)

- Rings of \_\_\_\_\_ and \_\_\_\_\_
- Made of \_\_\_\_\_ and \_\_\_\_\_
- Giant

- \_\_\_\_\_ moons

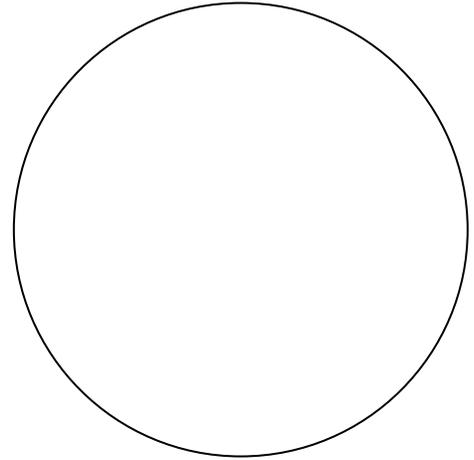
- \_\_\_\_\_ – largest moon

- (has \_\_\_\_\_ with \_\_\_\_\_ on it and maybe \_\_\_\_\_?)

- Visited by \_\_\_\_\_ (European)

# Uranus

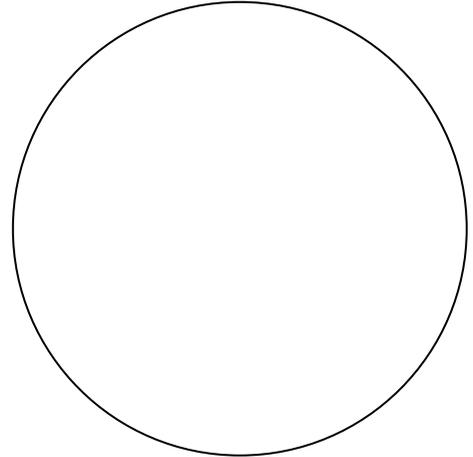
- Day= \_\_\_ hrs
- Year= \_\_\_ years
- \_\_\_\_\_ rotation
- 



- named after
- \_\_\_ moons (none of interest)
- methane gas

# Neptune

- \_\_\_\_\_ planet  
day= \_\_\_\_\_ hr year= \_\_\_\_\_ yrs



- named after
- Frozen
- 
- Great dark spot=
- Winds blow \_\_\_\_\_ (almost 2x the speed of sound!)
- It may rain \_\_\_\_\_
- 13 moons
  - Triton-
  - Nitrogen \_\_\_\_\_ and \_\_\_\_\_ eruptions
  - Coldest

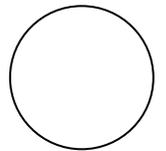
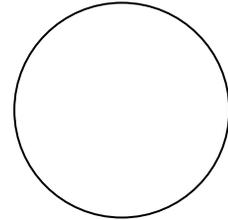
# Kuiper belt

Elliptical plane past Neptune filled with  
\_\_\_\_\_ objects

DWARF PLANETS:

## PLUTO

- day= \_\_\_ days
- year= \_\_\_ yrs
- named after \_\_\_\_\_
- composed of \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_



- \_\_\_\_\_ moons

- \_\_\_\_\_ - moon that is \_\_\_\_\_ planet

- very

SEDNA- 10,500 YEAR \_\_\_\_\_

ERIS – 580 \_\_\_\_\_ ORBIT

HAUMEA

MAKEMAKE

# OORT CLOUD

Spherical cloud of icy objects further out than \_\_\_\_\_ belt

**Comets** – large chunk of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ gas, and \_\_\_\_\_ moving through \_\_\_\_\_ (dirty snowball)

1) Usually dislodged by the \_\_\_\_\_ of a nearby planet

2) Nucleus—

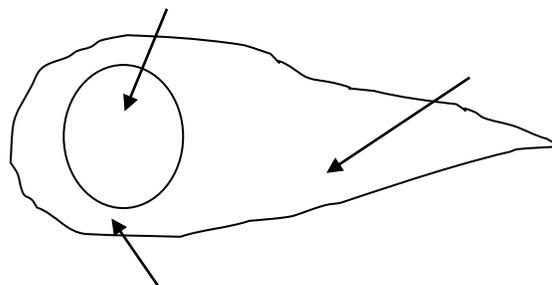
3) Coma—cloud of

4) Tail—the coma of a comet that is being

\_\_\_\_\_

5) Halley's Comet—

(has an orbit of less than \_\_\_\_\_ years) that returns every \_\_\_\_\_ years (2061)



## **Meteoroids--**

1. made of \_\_\_\_\_ or
- 2.

## **Meteors—**

(making a streak of light)

1. friction with
2. most are \_\_\_\_\_-sized

## **Meteorites —**

1. the meteor is big enough to
2. baseball/softball sized

\*These are all the \_\_\_\_\_ but are renamed based on \_\_\_\_\_ they are located

# How the solar system formed:

1. Nebula-
2. Gravity
3. Friction in center causes
4. Fusion
5. Solar winds
6. Accretion
  - a. Rock collisions =
  - b. Gas collisions =

# How distances are measured:

## Short space distance:

Astronomical unit=

## Long space distance:

### Light year=

- Light travels \_\_\_\_\_
- \_\_\_\_\_ miles per year
- Alpha Centauri is 4 light years away, so it is \_\_\_\_\_ miles away