I.Which has the larger gathering power

Gathering power is proportional to the area of the primary mirror Diameter 2 meters has 4 times of a 1 meter telescope

2. Naked eye limit is about 6 on the apparent magnitude scale!

3. Changes of weight with changes in planet's mass and radius As mass increases weight increases with the same ratio. With increase of radius ( inverse square law)

4. Magnification of a telescope. Magnification=telescope focal length/ eyepiece focal length

5. Wavelength= speed of light/ frequency

6. Resolving power : is measured in arc seconds. The formula is Arc seconds(x)= 11.6/(d)

7. How to calculate the period of a planet TI squared/a1 cubed=T2 squared/ a2 cubed