

## Different Planets, Different Gravity

1. Rank the 8 planets in order of largest to smallest:

Diameter:

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

Surface gravity:

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

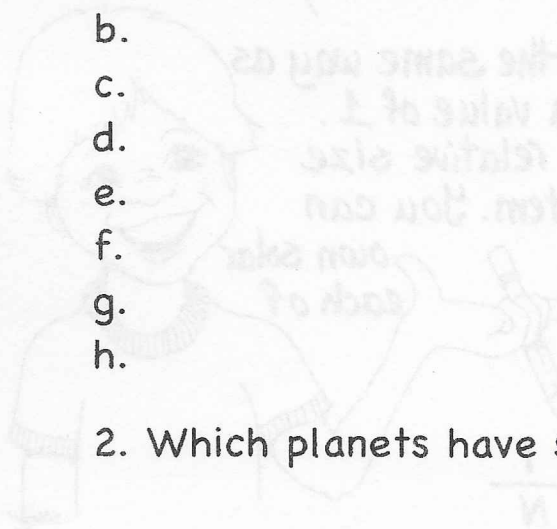
2. Which planets have surface gravities similar to Earth?

3. Astronomers have divided the planets into large gas giants and smaller rocky planets. Which planets fall into which category according to their diameter?

a. Gas giants:

b. Rocky planets:

4. Do the planets with the largest surface gravity also have the largest diameter? Provide some examples.



| Planet  | Diameter   |
|---------|------------|
| Jupiter | 142,984 km |
| Saturn  | 120,536 km |
| Uranus  | 50,724 km  |
| Neptune | 49,532 km  |
| Pluto   | 2,377 km   |
| Earth   | 12,756 km  |
| Venus   | 12,104 km  |
| Mars    | 4,219 km   |
| Mercury | 4,878 km   |