



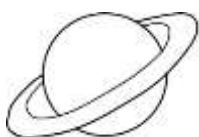
PROBLEM SOLVING - THE SOLAR SYSTEM (STANDARD UNITS)

Have a look at the data on our planets below, then answer the questions.

PLANET	MEAN RADIUS (miles)	MEAN DIAMETER (miles)	RADIUS TO NEAREST 1000 miles
Mercury	1516		
Venus	3761		
Earth	3959		
Mars	2106		
Jupiter	43441		
Saturn	36184		
Uranus	15759		
Neptune	15299		

- 1) Fill in the mean diameter of each planet by using the radius. The mean diameter is twice the mean radius.
- 2) Round each radius to the nearest 1000 miles and fill in the column on the right hand side.
- 3) Write the planets in order, from smallest to largest below (you can write the first 3 letters in each planet's name).

- 4) How much larger is the radius of Saturn than the radius of Earth?
- 5) How much smaller is the radius of Mars than the radius of Neptune?
- 6) What is the total radius of the three largest planets?
- 7) The radius of Jupiter is about:
2 times 5 times 10 times 20 times bigger than the radius of Earth.





PROBLEM SOLVING - THE SOLAR SYSTEM

ANSWERS (STANDARD UNITS)

PLANET	MEAN RADIUS (miles)	MEAN DIAMETER (miles)	RADIUS TO NEAREST 1000 miles
Mercury	1516	3032	2000
Venus	3761	7522	4000
Earth	3959	7918	4000
Mars	2106	4212	2000
Jupiter	43441	86882	43000
Saturn	36184	72368	36000
Uranus	15759	31518	16000
Neptune	15299	30598	15000

- 1) Fill in the mean diameter of each planet by using the radius. The mean diameter is twice the mean radius.
- 2) Round each radius to the nearest 1000 miles and fill in the column on the right hand side.
- 3) Write the planets in order, from smallest to largest below (you can write the first 3 letters in each planet's name).

Mercury Mars Venus Earth Neptune Uranus Saturn Jupiter

- 4) How much larger is the radius of Saturn than the radius of Earth? **32,225 miles**
- 5) How much smaller is the radius of Mars than the radius of Neptune? **13,193**
- 6) What is the total radius of the three largest planets? **95,384 miles**
- 7) The radius of Jupiter is about:
 2 times 5 times **10 times** 20 times bigger than the radius of Earth.

