1.The minimum distance between the Sun and Saturn is 1.4×109 km while the maximum distance between the Sun and the Earth is1.5×108 km. What is the minimum distance between the Earth and Saturn in kilometers?

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | Incorrect | kilometers |
| Incorrect  | ×10  |   |

 The minimum distance between Earth and Saturn is 1.25X109 kilometers.



2.The Apollo 8 spacecraft, the first mission to take humans to the vicinity of the Moon, traveled a total distance of 9×105 kilometers in 150 hours. What is the average speed in kilometers per hour?

|  |  |  |
| --- | --- | --- |
|   |  |   |
| ×10  | km h-1  |

In meters per second?

|  |  |  |
| --- | --- | --- |
|   |  |   |
| ×10  |  m s-1  |
|  |  |  |
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3. You may remember learning in grade school that 30% of the surface of the Earth is land. (Note that the symbol for Earth is ⊕.) In other words,

 Land Area⊕=0.3×Surface Area⊕=0.3(4πR2⊕)

Earth has a radius of R⊕=6300R⊕=6300 km.

Meanwhile, the surface area of Mars is

 Surface Area of Mars=1.4×108 square kilometers.

What is the ratio of the Earth's land area to Martian land area?

In other words, calculate

 Land Area⊕Land AreaMarsLand Area⊕Land AreaMars =



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