

The sun is... BIG



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How big is big?

-R~696 million meters
=696,000,000
 $\approx 700,000,000$

in scientific notation?
 $=7 \times 10^8$ m

As a ROUND power of ten?
 $=10^9$

How many times bigger is this
than Earth?

$R_{\text{earth}} \sim 6.5$ million meters

The sun is... HOT



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How hot is hot?

Surface Temperature=
10,000F

How much is that as
power of ten?

10^4

The sun is... HOT



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Surface Temperature=
 $10,000\text{F} = 10^4$

How many times hotter
is it than a “hot” day in
Tucson?

- (a) About 10 times
- (b) About 100 times
- (c) About 1000 times
- (d) About 10000 times