**Unit Conversion: Quiz 3a**

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**Make sure to SHOW ALL WORK in ONE CHAIN CONVERSION.**

1. Astronomers measure certain distances in units of au or “astronomical units” (**au**), which is defined to be 149 597 871 000 **meters**. This is the average distance between the center of the Earth and the sun.

They define a second unit called the **parsec (pc),** which is equal to 206264 **au**.

For even bigger distances they use a unit called the **zettameter (Zm),** which equals 1.00 x 1021 **meters**.

***Calculation how many parsecs there are in 1.00000 Zm***.

Answers:





3 Sig Figs =



1 chain conversion =