

## MAT.08.CR.2.000EE.A.133 Claim 2

Sample Item ID:	MAT.08.CR.2.000EE.A.133
Grade:	08
Primary Claim:	<b>Claim 2: Problem Solving</b> Students can solve a range of complex well-posed problems in pure and applied mathematics, making productive use of knowledge and problem solving strategies.
Secondary Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Primary Content Domain:	Expressions and Equations
Secondary Content Domain(s):	The Number System
Assessment Target(s):	2 A: Apply mathematics to solve well-posed problems arising in everyday life, society, and the workplace.  1 B: Work with radicals and integer exponents.  1 A: Know that there are numbers that are not rational, and approximate them by rational numbers.
Standard(s):	8.EE.3, 8.NS.2
Mathematical Practice(s):	1, 2, 4, 5, 6, 7
DOK:	2
Item Type:	CR
Score Points:	1
Difficulty:	H
Key:	187,000,000
Stimulus/Source:	<a href="http://heasarc.nasa.gov/docs/cosmic/planets.html">http://heasarc.nasa.gov/docs/cosmic/planets.html</a> ; <a href="http://neo.jpl.nasa.gov/cgi-bin/neo_elem?type=AMO;hmax=all;sort=name;sdir=ASC;max_rows=20;fmt=full;action=Display%20Table;show=1&amp;from=20">http://neo.jpl.nasa.gov/cgi-bin/neo_elem?type=AMO;hmax=all;sort=name;sdir=ASC;max_rows=20;fmt=full;action=Display%20Table;show=1&amp;from=20</a> (the semi-major axis is the average distance from the sun)
Target-specific attributes (e.g., accessibility issues):	Calculators should be turned on.
Notes:	The response space allows for a maximum of 14 digits. Commas and decimal points can be entered.

