

MAT.08.TE.2.000EE.A.145

Sample Item ID:	MAT.08.TE.2.000EE.A.145
Grade:	08
Primary Claim:	Claim 2: Problem Solving 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:	Equations and Expressions
Secondary Content Domain(s):	
Assessment Target(s):	2 A: Apply mathematics to solve well-posed problems arising in everyday life, society, and the workplace. 2 B: Select and use appropriate tools strategically. 1 B: Work with radicals and integer exponents.
Standard(s):	8.EE.4
Mathematical Practice(s):	1, 2, 5, 6, 7, 8
DOK:	2
Item Type:	TE
Score Points:	1
Difficulty:	M
Key:	Schedar, Ruchbah
Stimulus/Source:	Ridpath, Ian. The Facts on File atlas of stars and planets: a beginner's guide to the universe. New York: Facts on File, 1993.
Target-Specific Attributes (e.g., accessibility issues):	Calculators should be available for this target.
Notes:	TE template: Select Objects

A light-year is a unit of distance. It is the distance that light travels in 1 year. For example, the distance from the North Star to Earth is about 434 light-years because it takes light about 434 years to travel from the North Star to Earth.

The table lists five stars in the constellation Cassiopeia and their approximate distances, in light-years, from Earth.

Light travels at a speed of 3×10^8 meters per second. Highlight each star in the table that is between 7×10^{17} meters and 3×10^{18} meters from Earth. Click the name of a star to highlight it.

Star	Distance from Earth in Light Years
Schedar	228.56
Caph	54.46
Tsih	613.08
Ruchbah	99.41
Segin	441.95

TE Information:

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Template: Select Objects

Interaction Space Parameters:

- A. The five rows in the table in the item
- B. False

Scoring Data:

{Schedar, Ruchbah}=1