Grade

Mathematics

Sample Test Items

Grade Eleven Sample Test Item—Concepts & Procedures Achievement Level: Standard Met

Given for the formula, $F = \frac{mv^2}{r}$ where

- F represents force,
- m represents mass and has units of grams (g),
- v represents velocity and has units of meters per second $\left(\frac{m}{s}\right)$, and
- r represents the radius and has units of meters (m).

Select an appropriate measurement unit for force.

- A 9 s
- B g m
- **c** g m
- $\frac{\mathbf{g} \cdot \mathbf{m}^3}{\mathbf{s}^2}$

Area	Concepts & Procedures Applying mathematical concepts and procedures
Standard(s)	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.
Answer	С