

Converting Units within a Measurement System

6.4 Proportionality The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations. The student is expected to:

- (D) give examples of **rates as the comparison by division of two quantities** having different attributes, including rates as quotients
- (H) **convert units within a measurement system**, including the use of proportions and unit rates

6.5 Proportionality The student applies mathematical process standards to solve problems involving proportional relationships. The student is expected to:

- (A) represent mathematical and real-world problems involving **ratios and rates** using scale factors, **tables**, graphs, and **proportions**

6.6 Expressions, equations, and relationships. The student applies mathematical process standards to use multiple representations to describe algebraic relationships. The student is expected to:

- (A) identify **independent** and **dependent** quantities from **tables** and graphs
- (C) represent a given situation using **verbal descriptions**, **tables**, graphs, and equations in the form $y = kx$ or $y = x + b$

My teacher's learning goals for me are that I will be able to:

- Read a problem and identify what the question is asking me to find.
- Identify which unit corresponds with the x-column (independent) and y-column (dependent).
- Set up a table according to what the question is asking me to find.
- Calculate the k-value.
- Answer what the question is asking me to find.

I will master **the learning goals** for Measurement Conversions with at least _____ mastery by:

- 1) Asking questions when I'm not sure of something and answering questions when I know the answer.
- 2) _____
- 3) _____

I do ... and you follow along and process!

A. Convert 17 yards to feet.

B. Convert 20 quarts to gallons

C. Rafael drives a $\frac{3}{4}$ -ton truck. He is traveling for vacation and needs to know the weight of his truck in pounds for certain load-zoned bridges he will cross. How many pounds does Rafael's truck weigh?