



Mathematics Competencies and Activities

Grade 3

Competency Goal 2/Objective 2.02: Recognize and use standard units of metric and customary measurement. Estimate and measure using appropriate units (mass).

Tweetsie Site: Tweetsie Railroad Depot

Activity: Solve the following problems:

- Loaded with coal and water for her steam engine, Tweetsie weighs almost 82.5 tons, not counting the weight of her cars and passengers. Estimate her weight in pounds.
- Locomotive Number 12 weighs more than 75 tons. If the total working weight with coal and water is 82.5 tons, and Tweetsie carries 7 tons of coal, about how much does the water weigh?
- The length of the engine No. 12 is 54 feet. It is 8 feet 4 inches wide and 12 feet tall.
Imagine that you have to build a fence around Tweetsie.
What would be the size of your rectangular fence? (9 feet wide, 55 feet long)
What would be the area of the fenced enclosure? (9 feet wide x 55 feet long = 495 square feet)