



Prealgebra Practice Test
Unit 6: Ratio, Proportion, and Unit Analysis

Name _____

Date _____

1. Write the ratio of 6 to 8 as a fraction in lowest terms.
2. A stair stepper machine on level 12 indicates that 1169 calories/hour are being expended. The standard time for a workout is 20 minutes. How many calories are burned during this time? Round to the nearest calorie.
3. A high school football field, not including the end zones, is 100 yards long and 50 yards wide. How many square feet are in the field? Round to the nearest square foot.
4. What is the weight in tons of a 3600 pound car?
5. A 2lb. 7oz. can of coffee costs \$6.98. What is the cost per ounce? Express your answer in cents/ounce, rounded to the nearest cent.
6. How many centimeters are in a foot? Round to the nearest tenth.
7. An old engine has a 195° F thermostat. Write this temperature in degrees Celsius. Round to the nearest degree.
8. To the nearest cubic centimeter, how many cubic centimeters are in one kiloliter?
9. If a runner completes the 100 meter dash in 10 seconds, what is the rate in kilometers per hour?
10. Solve the proportion $\frac{4}{x} = \frac{16}{13}$.