

Ottocento Lesson #2 Unit Conversions Worksheet

Video Solutions at: <https://youtu.be/pGrGcA36ENs>

Question 1

A student mows lawns. He cuts 450 square feet of grass in 20 minutes. At this rate, how much square feet of grass per minute does the student cut?

Question 2

A beach has a length of 8,046.7 meters. What is the length of the beach, in miles? (1609.34 meters = 1 mile).

Question 3

A phone has a mass of 0.175 kilograms. What is the mass of the phone, in grams? (1000 grams = 1 kilogram).



Question 4

A football field is 120 yards long. What is the length of the football field, in inches? (12 inches = 1 foot) (3 feet = 1 yard).

Question 5

A backyard has an area of 43,560 square feet. What is this area, in square yards? (9 square feet = 1 square yard).

Question 6

A person weighs 220 pounds. What is their weight/mass in kilograms? (1 kilogram = 1000 grams) (1 pound = 454 grams).



Question 7

A tank is being emptied at a rate of 57 quarts per hour. What is this rate, in liters per second? (1 quart = 0.95 Liter). Round to the nearest thousandth.

Question 8

A piece of paper has an area of 93.5 square inches. What is the area of the piece of paper, in square centimeters? (1 inch = 2.54 centimeters). Round to the nearest tenth.



Question 9

Carpets are being produced at a rate of 45 square yards per minute. What is this rate, in square feet per second? (3 feet = 1 yard).

Question 10

A bathtub can hold a volume of 160 cubic decimeters. What is this volume, in cubic feet? (3.05 decimeters = 1 foot). Round to the nearest tenth.