

Additional Practice

Convert each measurement.

1. A bottle of apple juice holds 2 gallons. 2 gallons \cong _____ liters
2. A dog has a mass of about 20.43 kilograms. 20.43 kilograms \cong _____ pounds
3. Most bathtubs can hold about 190 quarts of water. 190 quarts \cong _____ liters
4. A piece of fabric is 30 feet long. 30 feet \cong _____ meters
5. Gail's puppy weighs 4.5 pounds. What is the mass of Gail's puppy in kilograms?

6. Brenda is painting a mural that is 9.15 square meters. The length of her mural is 12 feet. What is the width of the mural in meters?

Convert each measurement.

7. A frame is about 38.1 centimeters wide. 38.1 centimeters \cong _____ inches
8. A beetle weighs about 0.5 ounces. 0.5 ounces \cong _____ grams
9. 11.35 kilograms = _____ pounds
10. 1.5 yards = _____ meters
11. 4.57 meters \cong _____ yards
12. 14.8 milliliters \cong _____ fluid ounces
13. 40 ounces = _____ grams
14. 2 miles = _____ kilometers

Length	Weight/Mass	Capacity
1 inch = 2.54 centimeters	1 ounce \approx 28.4 grams	1 fluid ounce \approx 29.6 milliliters
1 foot \approx 0.305 meters	1 pound \approx 0.454 kilograms	1 quart \approx 0.946 liter
1 yard \approx 0.914 meters		1 gallon \approx 3.79 liters
1 mile \approx 1.61 kilometers		

PRACTICE

1. A ruler is 12 inches long. What is the length of this ruler in centimeters?
_____ centimeters
2. A bottle contains 4 fluid ounces of medicine. About how many milliliters of medicine are in the bottle? _____ milliliters
3. Miguel rode 19 miles on his bicycle. About how many kilometers did he ride?
_____ kilometers
4. A gas can contains 2.5 gallons of gas. About how many liters of gas are in the gas can?
_____ liters
5. A kitten weighs 4 pounds. About how many kilograms does the kitten weigh?
_____ kilograms

Convert each measurement.

6. 20 yards \approx _____ meters
 7. 12 ounces \approx _____ grams
 8. 5 quarts \approx _____ liters
 9. 30 inches \approx _____ centimeters
 10. 42 feet \approx _____ meters
 11. 7 gallons \approx _____ liters
 12. 5 miles \approx _____ kilometers
 13. 400 meters \approx _____ yards
 14. 165 centimeters \approx _____ inches
 15. 137.25 meters \approx _____ feet
 16. 10 liters \approx _____ gallons
 17. 10,000 kilometers \approx _____ miles
18. A countertop is 16 feet long and 3 feet wide.
- a. What is the area of the countertop in square meters? _____ square meters
 - b. Tile costs \$28 per square meter. How much will it cost to cover the countertop with new tile? \$ _____

19. Reasoning The length of a particular object is x inches.

- a. Will this object's length in centimeters be greater than x or less than x ? Explain.

- b. Will this object's length in meters be greater than x or less than x ? Explain.
