

Answer Key for Measuring Worksheet 15

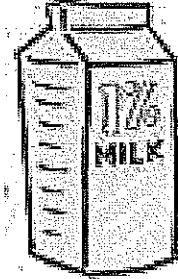
1a. 9 qt	1b. 9.875 mi	1c. 171 oz
2a. 4453 m	2b. 0.75 qt	2c. 40 oz
3a. 8.583 ft	3b. 1.5 qt	3c. 2.25 qt
4a. 0.328 gal	4b. 14 C	4c. 11600 lb
5a. 2600 lb	5b. 47 oz	5c. 36 oz
6a. 5.078 km	6b. 5.15 T	6c. 28 oz
7a. 3 qt	7b. 19 yd	7c. 3.5 qt
8a. 6.875 mi	8b. 11 yd	8c. 8.691 km
9a. 12 qt	9b. 19 qt	9c. 29 oz
10a. 7.5 m	10b. 2.438 gal	10c. 1073 ml
11a. 65 ft	11b. 3740 yd	11c. 2.375 mi
12a. 9304 ml	12b. 53 oz	12c. 1.167 ft
13a. 2 pt	13b. 440 yd	13c. 1.125 qt
14a. 6.125 C	14b. 6 pt	14c. 4.417 ft
15a. 16 oz	15b. 28380 ft	15c. 8170 m
16a. 9000 lb	16b. 2 qt	16c. 5 pt
17a. 45 ft	17b. 6 C	17c. 622 cm
18a. 74 oz	18b. 6350 m	18c. 10 qt
19a. 76 cm	19b. 1.57 gal	19c. 5.5 T
20a. 57 oz	20b. 532 mm	20c. 3099 ml

Answers

Take: 1 gallon = 3.79 liters, 1 quart = 0.95 liters, 1 pint = 0.47 liters
Show your workings and round answers off to the nearest hundredth.

1. Every day I drink 0.75 gallons of milk. How many liters of milk do I drink in 4 weeks?

$$4 \times 7 \times 0.75 \times 3.79 = 79.59 \text{ liters}$$

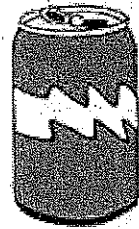


2. The total capacity of 4 similar jugs is 3.6 gallons. What is the capacity of 1 jug in milliliters?

$$(3.6 \div 4) \times 3.79 \times 1,000 = 3,411 \text{ milliliters}$$

3. The volume of 1 can of cola is 0.5 quarts. What is the volume of 64 cans in liters?

$$0.5 \times 64 \times 0.95 = 30.4 \text{ liters}$$



4. A container has a capacity of 100 gallons. Already filled with 10 gallons, how many liters of water is needed to fill it up completely?

$$(100 - 10) \times 3.79 = 341.1 \text{ liters}$$

5. How many milliliters of water do you need to fill up a 1.5 quart bottle?

$$1.5 \times 0.95 \times 1,000 = 1,425 \text{ milliliters}$$



6. What can hold more water: a 12 gallon jerry can or a 40,000 milliliters fish bowl?

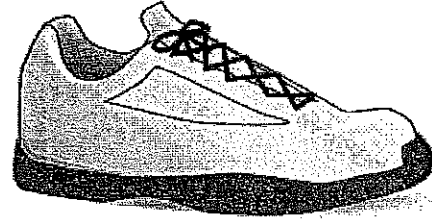
$$12 \times 3.79 \times 1,000 > 40,000$$

Answers

1 mile = 1609.34 m, 1 yard = 91 cm, 1 foot = 30.48 cm, 1 inch = 2.54 cm
Show your workings and round answers off to the nearest hundredth.

1. I run 1 mile per day to stay fit.
How many meters do I run in 2 days?

$$2 \times 1609.34 = 3,218.68 \text{ meters}$$

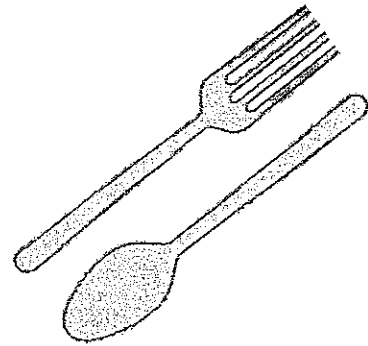


2. Peter is 4 feet tall. James is 1.2 times taller than him.
How tall is James in centimeters?

$$1.2 \times 4 \times 30.48 = 146.3 \text{ centimeters}$$

3. A fork is 8 inches long. How long are 3 such forks
in centimeters?

$$3 \times 8 \times 2.54 = 60.96 \text{ centimeters}$$

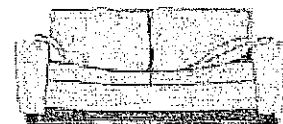


4. I cycle 3 miles per day to stay fit. Do I cycle more or less than
5 kilometers per day?

$$3 \times 1,609.34 = 4,828.02, \text{ thus less than 5 kilometers}$$

5. The total length of 2 identical sofas is 6 yards.
What is the length of 1 of these sofas in meters?

$$3 \times 0.91 = 2.73 \text{ meters}$$



6. The distance between my house and my work is 2.34 miles.
How far is this in meters?

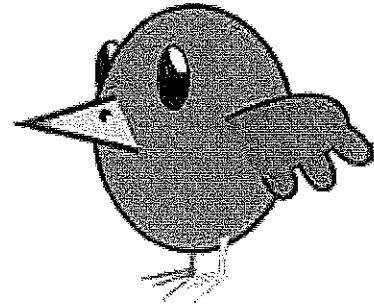
$$2.34 \times 1609.34 = 3,765.86 \text{ meters}$$

Answers

1 stone = 6.35 kilograms, 1 pound = 0.45 kilogram, 1 ounce = 28.35 grams
Show your workings and round answers off to the nearest hundredth.

1. A bird weighs 1.5 pounds. What is the bird's weight in kilograms?

$$1.5 \times 0.45 = 0.68 \text{ kilograms}$$

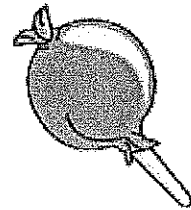


2. A book has a mass of 1,250 grams and a bag has a mass of 44 ounces. Which one is heavier?

$$44 \times 28.35 = 1,247 < 1,250, \text{ the book is heavier}$$

3. A candy has a mass of 0.1 ounces. What is the mass of 500 candies in kilograms?

$$0.1 \times 28.35 \times 500 = 1,417.5 \text{ grams} = 1.42 \text{ kilograms}$$



4. The mass of 1 pen is 0.1 pound. What is the mass of 100 pens in grams?

$$0.1 \times 0.45 \times 100 = 4.5 \text{ kilograms} = 4,500 \text{ grams}$$

5. After buying 1 kilogram of apples, I gave a 6 ounce apple away. How much of the apples (in grams) did I have left?

$$1,000 - (6 \times 28.35) = 829.90 \text{ grams}$$



6. A pig weighs 3.5 stones more than a 15 kilogram dog. What is the mass of the pig in grams?

$$(3.5 \times 6.35) + 15 = 37.23 \text{ kilograms} = 37,230 \text{ grams}$$