

# Metric System

For everyday measuring in the United States, we use the British system of pounds, gallons, and feet, but science (and the rest of the world) uses the easier metric system.

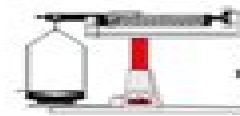
## Basic Units

All measurements in the metric system are based upon the basic units of meters, liters, and grams.

Meters measure length.



Liters  
measure  
volume.



Grams  
measure  
mass.

## Prefixes

The ease of the metric system comes in its use of prefixes. The British system uses completely different units when changing between small and large measurements. The metric system simply uses prefixes.

*Hard to remember*

**British lengths:**

12 inches = 1 foot

3 feet = 1 yard

5,280 ft = 1 mile

Small

Large

*Easy to remember*

**Metric lengths:**

10 millimeters = 1 centimeter

100 centimeters = 1 meter

1,000 meters = 1 kilometer

## Most Common Metric Prefixes

(M) Mega = 1,000,000

(k) Kilo = 1000

(c) Centi = 1/100th

(m) Milli = 1/1000th

(μ) Micro = 1/1,000,000th

So, 1 Megaliter (ML) = 1,000,000 liters

So, 1 Kilogram (kg) = 1000 grams

So, 100 Centimeter (cm) = 1 meter

So, 1000 Milliliter (ml) = 1 liter

So, 1,000,000 Micrometer (μm) = 1 meter

## How to Convert using Math

*Conversion Ratio = to 1*

$$\frac{75 \text{ Mm}}{1} \left( \frac{1,000,000 \text{ m}}{1 \text{ Mm}} \right) = 75,000,000 \text{ m}$$

*To convert from Mm, the units must cancel, so Mm must be on the bottom in the ratio.*

## A Decimal System

Because the metric system is based on multiples of ten, you can convert between metric units by simply moving the decimal the correct number of places.

Prefix Diagram:



*To convert in the metric system, just move the decimal.*

1	megameter (Mm) =
1000.0	kilometers (km) =
1000000.0	meters (m) =
1000000000.0	centimeters (cm) =
10000000000.0	millimeters (mm) =
1000000000000.0	micrometers (μm) =

**Ex. 1—Convert 34 Mm to km.** Solution: Since Kilo is 3 places to the right of Mega (see above), move the decimal 3 places to the right. So, 34 Mm = 34,000 km.

**Ex. 2—Convert 125.9 μg to cg.** Solution: Since Centi- is 4 places to the right of Micro (μ) (see above), move the decimal 4 places to the left. So, 125.9 μg = 0.01259 cg.

## How Big Are They?

It's important to have a real-life idea of the size of these units so we are not just talking numbers. A good scientist knows if a number makes sense.

### Volume

1 liter = just bigger than a quart  
1 mL = volume of a small marble



1 quart



1 liter

### Mass

1 kg = 2.2 pounds  
1 gram = 1 dollar bill  
1 gram



### LENGTH

1 mm = width of a fingernail  
1 cm = width of your pinky  
1 meter = 3.3 ft (just bigger than a yard)  
1 kilometer = 0.6 miles

Actual size ———→ | 1 cm |

# Cstephenmurray 2 1 Answer Key

**N Noddings**



**Cstephenmurray 2 1 Answer Key:**

## Whispering the Secrets of Language: An Psychological Journey through **Cstephenmurray 2 1 Answer Key**

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1. AB Calculus - Step-by-Step Name Write, but do not solve, an equation involving an integral expression whose solution  $k$  would be the number of days the height of the snow would be half of its ... Step by Step Student Let  $f$  be a twice-differentiable function defined on the interval  $0.5 < x < 4.5$  with  $f(2) = 3$ . The graph of  $f$ , the derivative of  $f$  is shown to the right. 70. AB Calculus - Step-by-Step Name Stu Schwartz. 70. AB Calculus - Step-by-Step. Name ... Describe the region in the  $xy$ -plane in which all the solutions to the differential equation are concave ... ABReview Stu Schwartz AB Calculus Exam - Review Sheet - Solutions. A. Precalculus Type problems ...  $f(x)$ . Step 1: Find  $f'(a)$ . If you get a zero in the denominator,. Step 2 ... Diff EQ Practice.pdf - 70. AB Calculus - Step-by-Step Name View Diff EQ Practice.pdf from MATH 1300 at Brooklyn College, CUNY. 70. AB Calculus - Step-by-Step Name \_ Consider the differential equation  $dy/dx + 1 = 0$ . dx ... AB Calculus Manual (Revised 12/2019) This manual can easily replace an expensive textbook. Teachers teach right from it and students write in it. The Solution Manual is exactly the same as the ... AB Calculus - Step-by-Step - 24. Function Analysis There is a relative maximum at  $x=2$  as  $f'$  switches from positive to negative. b. On what intervals is the graph of  $f$  concave upward? Justify your answers. (2). img-X26071655-0001 - 24. AB Calculus Step-by- ... View img-X26071655-0001 from MATH 2215 at Cameron University. 24. AB Calculus Step-by-Step Name The figure to the right shows the graph of  $f$ , the derivative ... MasterMathMentor AB31 - Definite Integrals with u-Substitution MMM AB Calculus MasterMath Mentor AB0102 - Intro to Calculus / Tangent line problem. Stu Schwartz · 28:56. MasterMathMentor AB03 - Rates of Change. Lion: A Long Way Home Young Readers' Edition Book details · Reading age. 10 - 14 years · Print length. 272 pages · Language. English · Grade level. 5 - 6 · Lexile measure. 1040L · Dimensions. 5.06 x 0.73 x ... Lion: A Long Way Home Young Readers' Edition The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring Dev Patel, David Wenham, Rooney Mara, Lion: A Long Way Home Young Readers' Edition Both the book and the film are very touching. This true story is very well written and puts you in the shoes of Saroo who, as an adult, wants to find back his ... Lion: A Long Way Home Young Readers' Edition Lion: A Long Way Home Young Readers' Edition. \$8.99. The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring ... Lion-A Long Way Home Young Readers' Edition The young

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