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Metric system conversion worksheet chemistry

METRIC MEASURES

LINEAR MEASURE	
10 millimeters	..... 1 centimeter
10 centimeters	..... 1 decimeter
10 decimeters	..... 1 meter
10 meters	..... 1 dekameter
10 dekameters	..... 1 hectometer
10 hectometers	..... 1 kilometer
SQUARE MEASURE	
100 sq. millimeters	..... 1 sq. centimeter
100 sq. centimeters	..... 1 sq. decimeter
100 sq. decimeters	..... 1 sq. meter
100 sq. meters	..... 1 sq. dekameter
100 sq. dekameters	..... 1 sq. hectometer
100 sq. hectometers	..... 1 sq. kilometer
LIQUID MEASURE	
10 milliliters	..... 1 centiliter
10 centiliters	..... 1 deciliter
10 deciliters	..... 1 liter
10 liters	..... 1 dekaliter
10 dekaliters	..... 1 hectoliter
10 hectoliters	..... 1 kiloliter
WEIGHTS	
10 milligrams	..... 1 centigram
10 centigrams	..... 1 decigram
10 decigrams	..... 1 gram
10 grams	..... 1 dekagram
10 dekagrams	..... 1 hectogram
10 hectograms	..... 1 kilogram
100 kilograms	..... 1 quintal
10 quintals	..... 1 ton
CUBIC MEASURE	
1,000 cu. millimeters	..... 1 cu. centimeter
1,000 cu. centimeters	..... 1 cu. decimeter
1,000 cu. decimeters	..... 1 cu. meter

METRIC EQUIVALENTS (continued)

WEIGHTS	
1 gram	..... 0.03527 ounce
1 ounce	..... 28.35 grams
1 kilogram	..... 2.2046 pounds
1 pound	..... 0.4536 kilogram
1 metric ton	..... 1.1023 English tons
1 English ton	..... 0.9027 metric ton
APPROXIMATE EQUIVALENTS	
1 decimeter	..... 4 inches
1 liter	..... 1.06 qts fl., 0.9 qt. dry
1 meter	..... 1.1 yards
1 kilometer	..... 5/8 of a mile
1 hectoliter	..... 2 5/8 bushels
1 hectare	..... 2 1/2 acres
1 kilogram	..... 2 1/5 pounds
1 cubic meter	..... 1/4 of a cord
1 metric ton	..... 1.1 English tons
LINEAR MEASURE	
1 centimeter	..... 0.3937 inch
1 inch	..... 2.54 centimeters
1 decimeter	..... 3.937 inches
1 foot	..... 3.048 decimeters
1 meter	..... 39.37 inches
1 yard	..... 0.9144 meter
1 dekameter	..... 1.9884 rods
1 rod	..... 0.5029 dekameter
1 kilometer	..... 0.62137 mile
1 mile	..... 1.6093 kilometers
MEASURE OF VOLUME	
1 cu. centimeter	..... 0.061 cubic inch
1 cubic inch	..... 16.39 cu. centimeters
1 cubic decimeter	..... 0.0353 cubic foot
1 cubic foot	..... 28.347 cu. decimeters
1 cubic meter	..... 1.308 cubic yards
1 cubic yard	..... 0.7646 cubic meter
1 stere	..... 0.2759 cord
1 cord	..... 3.624 steres
1 liter	..... 0.908 quart dry
1 liter	..... 1.0567 quarts liquid
1 quart dry	..... 1.101 liters
1 quart liquid	..... 0.9463 liter
1 dekaliter	..... 2.6417 gallons
1 gallon	..... 0.3785 dekaliter

METRIC EQUIVALENTS

SQUARE MEASURE	
1 sq. centimeter	..... 0.1550 square incl 1
1 square inch	..... 6.452 sq. centimeters
1 sq. decimeter	..... 0.1076 square foot.
1 square foot	..... 9.2903 sq. decimeters

Name: _____

Solve the unit conversion problem by cross cancelling units.

9.5 grams as centigrams	$\frac{9.5 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 950 \text{ cg}$
2.25 grams as centigrams	$\frac{2.25 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 225 \text{ cg}$
6.5 grams as milligrams	$\frac{6.5 \text{ g}}{1} \times \frac{1000 \text{ mg}}{1 \text{ g}} = 6500 \text{ mg}$
5.75 grams as centigrams	$\frac{5.75 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 575 \text{ cg}$
8.75 grams as centigrams	$\frac{8.75 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 875 \text{ cg}$
3.25 grams as milligrams	$\frac{3.25 \text{ g}}{1} \times \frac{1000 \text{ mg}}{1 \text{ g}} = 3250 \text{ mg}$
3.75 grams as centigrams	$\frac{3.75 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 375 \text{ cg}$
8.5 grams as centigrams	$\frac{8.5 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 850 \text{ cg}$
4.5 grams as milligrams	$\frac{4.5 \text{ g}}{1} \times \frac{1000 \text{ mg}}{1 \text{ g}} = 4500 \text{ mg}$
1.25 grams as centigrams	$\frac{1.25 \text{ g}}{1} \times \frac{100 \text{ cg}}{1 \text{ g}} = 125 \text{ cg}$

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WUH5 / Chem / Monson Name: _____ Date: _____ Per: _____

PROBLEM SET: Metric Units & Conversions (3.2-3.3)



Metric Conversion Factors:

1 km = 1000 m 1 kg = 1000 g 1 L = 1000 mL

1 m = 100 cm 1 g = 100 mg 1 mL = 1000 µL

1000 mm = 1 m 1000 g = 1 kg 1000 mL = 1 L

10 mm = 1 cm 10 g = 1 mg 1000 µL = 1 mL

1000 km = 1000 m 1000 g = 1000 mg 1000 mL = 1000 µL

Kelvin = °C + 273

Part 1: Convert the following metric units.

(Don't forget to determine the conversion factor you will need.)

1) 6.3 m = _____ m

2) 0.855 m = _____ m

3) 56.33 kg = _____ kg

4) 80.4 cm = _____ m

5) 400 mL = _____ L

6) 36°C = _____ K

7) 0.92 m = _____ cm

8) 6.50 X 10³ mg = _____ g

9) 0.04 kg = _____ g

10) 423 K = _____ °C

11) 80.0 m = _____ cm

23) A quarter has a mass of about 5.6 g. Express this mass in milligrams, kilograms and micrograms.

_____ mg _____ kg _____ µg

24) Match the approximate mass with each item.

a) peanut A) 400 cg

b) pen B) 50 mg

c) lamp C) 50 g

d) person D) 150 g

25) Convert the volume of a pop can, 365 mL, to liters and to microliters.

_____ L _____ µL



Name: _____ Date: _____ Hour: _____

Metric Conversion Worksheet

Convert the following. Write your answers in the spaces provided.

1. 256 m = _____ cm
2. 97.25 cm = _____ mm
3. 952 g = _____ mg
4. .574 m = _____ cm
5. 5.287 L = _____ ml
6. 785.3 km = _____ m
7. 84.363 km = _____ cm
8. 872 km = _____ mm
9. 95.824 cm = _____ mm
10. 8.26 kl = _____ ml
11. 36 mm = _____ cm
12. 857 cm = _____ mm
13. 8.52 mg = _____ g
14. 975 mm = _____ cm
15. 9.824 cm = _____ m
16. 74.21 cm = _____ km
17. .254 g = _____ kg
18. 96 mm = _____ km
19. 12.5 cm = _____ m
20. 85 ml = _____ l
21. 86 g = _____ mg
22. 87.2 mm = _____ cm
23. 1 mm = _____ cm
24. 97.5 cm = _____ km
25. .534 cm = _____ m
26. 984 g = _____ kg
27. 8.64 m = _____ mm
28. 64.3 ml = _____ l
29. 8.47 km = _____ m
30. 74,201 mm = _____ km
31. .24 mg = _____ kg
32. 7.4 kl = _____ l
33. 874 m = _____ cm
34. 1 cm = _____ km
35. 8,412 mm = _____ m
36. 68.2 mg = _____ g
37. 8,5743 cm = _____ km
38. 95,870 m = _____ mm
39. 547 kl = _____ ml
40. 1 km = _____ mm

ENGLISH TO METRIC

METRIC TO ENGLISH

LENGTH (APPROXIMATE)		LENGTH (APPROXIMATE)	
1 inch (in) = 2.5 centimeters (cm)		1 millimeter (mm) = 0.04 inch (in)	
1 foot (ft) = 30 centimeters (cm)		1 centimeter (cm) = 0.4 inch (in)	
1 yard (yd) = 0.9 meter (m)		1 meter (m) = 3.3 feet (ft)	
1 mile (mi) = 1.6 kilometers (km)		1 meter (m) = 1.1 yards (yd)	
		1 kilometer (km) = 0.6 mile (mi)	
AREA (APPROXIMATE)		AREA (APPROXIMATE)	
1 square inch (sq in, in ²) = 6.5 square centimeters (cm ²)		1 square centimeter (cm ²) = 0.16 square inch (sq in, in ²)	
1 square foot (sq ft, ft ²) = 0.09 square meter (m ²)		1 square meter (m ²) = 1.2 square yards (sq yd, yd ²)	
1 square yard (sq yd, yd ²) = 0.8 square meter (m ²)		1 square kilometer (km ²) = 0.4 square mile (sq mi, mi ²)	
1 square mile (sq mi, mi ²) = 2.6 square kilometers (km ²)		10,000 square meters (m ²) = 1 hectare (ha) = 2.5 acres	
1 acre = 0.4 hectare (ha) = 4,000 square meters (m ²)			
MASS - WEIGHT (APPROXIMATE)		MASS - WEIGHT (APPROXIMATE)	
1 ounce (oz) = 28 grams (gm)		1 gram (gm) = 0.036 ounce (oz)	
1 pound (lb) = 0.45 kilogram (kg)		1 kilogram (kg) = 2.2 pounds (lb)	
1 short ton = 2,000 = 0.9 tonne (t) pounds (lb)		1 tonne (t) = 1,000 kilograms (kg)	
		= 1.1 short tons	
VOLUME (APPROXIMATE)		VOLUME (APPROXIMATE)	
1 teaspoon (tsp) = 5 milliliters (ml)		1 milliliter (ml) = 0.03 fluid ounce (fl oz)	
1 tablespoon (tbsp) = 15 milliliters (ml)		1 liter (l) = 2.1 pints (pt)	
1 fluid ounce (fl oz) = 30 milliliters (ml)		1 liter (l) = 1.06 quarts (qt)	
1 cup (c) = 0.24 liter (l)		1 liter (l) = 0.26 gallon (gal)	
1 pint (pt) = 0.47 liter (l)			
1 quart (qt) = 0.96 liter (l)			
1 gallon (gal) = 3.8 liters (l)			
1 cubic foot (cu ft, ft ³) = 0.03 cubic meter (m ³)		1 cubic meter (m ³) = 36 cubic feet (cu ft, ft ³)	
1 cubic yard (cu yd, yd ³) = 0.76 cubic meter (m ³)		1 cubic meter (m ³) = 1.3 cubic yards (cu yd, yd ³)	
TEMPERATURE (EXACT)		TEMPERATURE (EXACT)	
$[(x-32)(5/9)]^{\circ}\text{F} = y^{\circ}\text{C}$		$[(9/5)y + 32]^{\circ}\text{C} = x^{\circ}\text{F}$	

Students experiment with weighing objects and measuring capacity, and also learn about temperature and time. Since the metric system is based on the number 10, conversions between units are very easy: they only involve multiplication and division by 10, 100, 1000, etc. Units of measurement Worksheets Level of difficulty: 1A (for example, 2 ft = in or 5 L = ml) 2A (for example, 25 in = ft in) 3A (for example, 218 in = ft in) 4A (always using decimals, for example, 5.77 ft = in or 9.32 m = cm) The levels of difficulty work a little differently, depending on whether you choose individual units or conversions between all metric units. Some difficulty levels for certain types of conversions will not accept decimal digits at all. Group projects are included in addition to numerous individual activities. This has the advantage that you can save the spreadsheet directly from your browser (choose File > Save) and then edit it in Word or another word processing program. If you look at the metric conversion tables, you can see that the decimal point moves according to the increases or decreases in size. Heat is lost to the environment, so it may appear as matter, and energy is not conserved. Grades 6-7 In grades 6 and 7, students continue to work with decimal numbers in conversions. Conversions between units of measurement are studied throughout elementary school. To get the worksheet in html format, press the "View in browser" or "Make html worksheet" button. A good example of an open system is the transfer of energy in an automobile. To get the PDF worksheet, simply press the "Create PDF" or "Make PDF worksheet" button. A system like this, which loses heat or other energy around it, is also known as a dissipative system. This number is because one milliliter is the same as 0.03937 inches, according to MCWDN. In Book 1, students learn how a linear measurement system is developed and then measurement length related activities. A water of a pA® Very close to the length of 305 thousand/mm if the numbers are rounded up to the "maximum. One milliliter A© equal to 0.0022 pounds, to convert milliliters to pounds, you do not multiply the number of milliliters with the number 0.0022. You cannot choose to include inches, pA© s, meters, onA pints, liters, gals, p, pounds, thousand meters, inches, meters, kilograms, liters and milliliters. Some calculators, such as volume converters, also fail to offer results for weight or mass, giving the impression that volume and mass or weight mean the same thing when they do not. However, because liters are a measure of volume, a more accurate way to describe it would be to say that one milliliter A is equal to 0.00422675 xCups.Milligrams for similar pounds or milliliters, milligrams can be converted into pounds, although milliliters are a measure of volume while milligrams are a measure of weight, according to the recorded nursing. If you are not behind a web filter, make sure that the *.kastatic.org and *.kasandbox.org domains are unlocked. Book 2 concentrates on length, last and measurements of Airea. Spreadsheets can be made in HTML or PDF format - both are easy to print. In science, an open system is a system that can freely exchange matter and energy with its surroundings. Using the number 305 again, to represent the milliliters, the formula 3^3 to transform 305 milliliters to pounds would be 305 milliliters $\times 0.0022 = 0.671$. Book 4 covers a variety of 3. Please check their effect by making a spreadsheet and then return to this page using the back button in your browser. For volume measurements, use milliliters for cup calculators, and to convert weight, use one milligram for calculator inputs. To Another way, a kilo of Water is equal to 453.59 milliliters, according to nina units. They also study the various units with prefixes of at least from milliliters to kilograms, such as millimeter, centimeter, decimeter, meter, decimeter, hectometer and kilometer. Using 305 as an example, 305 milligrams equals 0.01075856 ounces. Based on the Number 10The metric system is based on a measure of 10, so to move from one unit to another you can move the decimal point to the left or to the right. For example, the formula for turning 305 millimeters into inches would be 305 millimeters $\times 0.03937 = 12.00785$ inches. You can use mathematics and calculate the answer or use an online conversion tool to find the answer for you. Using 10 as the base number simplifies the mathematics when compared with the American standard system that includes increments expressed in fractional form. Calculators that convert metric to standardUsing an online conversion calculator is another way to quickly convert metric measurements to standards. Decimal digits: Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the larger unit: 0 1 2 3 4 5 6 Rounding answers 0 1 2 3 4 5 6 Decimals Again, decimal digits work a little differently depending on the level of difficulty and the type of conversions chosen. Starting typically in the 2nd or 3rd grade, children practice easy conversions, such as exchanging a larger unit for smaller units (4 cm into 40 mm) and the reverse (300 cm = 3 m). To convert the metric measurements to the US standard system measurements, you have two options. They convert for example 2.8 km into 2,800 m, or 165 ml into 0.165 L. HTML format: simply refresh the spreadsheet page in your browser window. Later they learn how to use decimal numbers in conversions. You can also customize them using the generator below. You are here: Home > Worksheets > Metric Measurement Create an unlimited supply of meter sheets For converting median units to 2-7 degrees. Mathematics requires only a simple multiplication problem to transform a medication sa erthe retrevnociocir@Am ametsisAFDP rainC A A rodagevan on reV)lk,jh,lad,L,ld,lc,lm(emulovod ed sedadina sa erthe retrevnociocir@Am ametsisAFDP rainC A A rodagevan on reV)gk,gh,gad,g,gd,gc,gm(o seep ed sedadina sa erthe retrevnociocir@Am ametsisAFDP rainC A A rodagevan on reV)mk,mh,md,mc,mmt,otnemirpmoc ed sedadina sa erthe retrevnociocir@Am ametsisAFDP rainC A A rodagevan on reV)jmk,mb,md,mc,mmt,otnemirpmoc ed sedadina sa erthe retrevnociocir@Am ametsisAFDP rainC A A rodagevan on reV)l,lad,jh,ik,gn,gc,ad,g,gn,gc,ad,g,gn,gc,ad,g,gn,mc,md,m,mc,mk,sepaApo satsed amu reuqlauq euqifirev -ocir@Am ametsis on sepaArevnoC :satsed orem@An reuqlauq euqifirev -siauidividu sedadina erthe sepiArevnocioc.acin@A,otnatrop,e etnemairotaela adareg @A ahlnalp adaC sahnalp sa arap sacis;Ab sepiAurtsnl soxiferp moc sadamrof sacir@Am sedadinaU 7-6 suar@5 uar@4 uar@3 uar@2 uar@1 uar@0 sacir@Am sedadina ed sahnalp ;Ararthnoe @Acv amigAp atseN siant abia5 >= .73930.0 orem@An olep sortem@lum ed orem@An o equilpitum ,sortem@lum mo odatneserpa @A orem@An o dauna met @Acv sadagelop satnaq ranimrearaPsadagelop me acir@AM ed ofArevnnoC.ofArdap ohnamat o arap of length, weight and volume. Display in the navigator. Create PDFAN Use the generator to do spreadsheets for converting p between units of measurement. You also can make worksheets for the mA© trico system: units with the prefixes Milli, Centi, Deci, Deka, Hecto and Kilo. Then milligrams convert more accurately pounds than milliliters. In Book 3, the concept of A© developed and the students are introduced in the volume, Full CentMeters and ThousandMeters (3 cm = mm or 70 mm = cm) View in the full t-browser meters and inches (3 m = cm or 500 cm = m) View in the full t-browser kilometers and meters (7 km = m or 1,000 m = km) View in the browser, meters and inches (3 km = m or 100 cm = m) View in the browser Create pdf @Meters, thousand meters (3 m = cm or 40 mm = cm) View in browser Whole kilograms and grams (8 kg = g or 9,000 g = kg) View in browser A ® and milliliters (6 l = ml or 6,000 ml = l) View in browser mixed view of all units mA© tricas in this case (mm, cm, kg, g, l, ml) View in browser CRIANHE PDF Grade 4 Convert between inches and one thousand meters (3 cm = mm) View in browser CHILD @gor 2,490 g = kg g) View in browser -convert between liters and milliliters (6 l 250 ml = ml) view in Mixed Browser Practice of all the mM units in this session (mm, cm, m, kg, g, l, ml) seen in browser Easymm, cm, m, km, kg, g, L, ml View in the navigator Create PDFAN Grade 5 In grade 5, students use decimal numbers with units of measurement. The conversions in the p worksheet below are simple, as they involve only converting a larger unit into smaller units (such as 3 m = cm) or writing a multiple of ten of the smaller unit in terms of the larger unit (such as 50 mm = cm). MORE THAN QUESTIONSANSWERED.NET If you are not seeing this message, it means that we are having trouble loading external resources onto our site. When converting the length, for example, use a calculator from a thousand meters to inches. The mA© trico system: units with prefixes The worksheet below involves converting between a range of mA© tricas units with prefixes milli-, centi-, deci-, (Bistic unit, deka-, hecto- and kilo-. You cannot generate the worksheets in html or PDF format@ both are easy to print. Energy that is mixed in AA the fuel is converted into mechanical energy. energy.

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