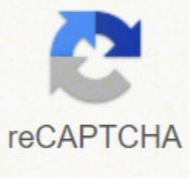




I'm not robot



Open

Question 1 (10 marks)
 Name: _____

Solve the unit conversion problem by cross cancelling units.

8 feet	=	$\frac{8 \text{ ft}}{1} \times \frac{12 \text{ in}}{1 \text{ ft}} = 96 \text{ in}$
10 miles	=	$\frac{10 \text{ mi}}{1} \times \frac{5280 \text{ ft}}{1 \text{ mi}} = 52800 \text{ ft}$
72 inches	=	$\frac{72 \text{ in}}{1} \times \frac{1 \text{ ft}}{12 \text{ in}} = 6 \text{ ft}$
108 inches	=	$\frac{108 \text{ in}}{1} \times \frac{1 \text{ ft}}{12 \text{ in}} = 9 \text{ ft}$
84 inches	=	$\frac{84 \text{ in}}{1} \times \frac{1 \text{ ft}}{12 \text{ in}} = 7 \text{ ft}$
2120 feet	=	$\frac{2120 \text{ ft}}{1} \times \frac{1 \text{ mi}}{5280 \text{ ft}} = 4 \text{ mi}$
10 feet	=	$\frac{10 \text{ ft}}{1} \times \frac{12 \text{ in}}{1 \text{ ft}} = 120 \text{ in}$
48 inches	=	$\frac{48 \text{ in}}{1} \times \frac{1 \text{ ft}}{12 \text{ in}} = 4 \text{ ft}$
2 feet	=	$\frac{2 \text{ ft}}{1} \times \frac{12 \text{ in}}{1 \text{ ft}} = 24 \text{ in}$
24 inches	=	$\frac{24 \text{ in}}{1} \times \frac{1 \text{ ft}}{12 \text{ in}} = 2 \text{ ft}$

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Metric Conversion Sheet (Spring 2008)

Metric Prefixes: Their Symbols, Mathematical Meanings & Conversion Factors

Prefix	Symbol	Meaning	Conversion Factor	Other Metric Conversions
kilo	k	1000	10^3	1 km = 1000 m
hecto	h	100	10^2	1 ha = 100 a
deca	da	10	10^1	1 dam = 10 m
deci	d	0.1	10^{-1}	1 dl = 0.1 L
centi	c	0.01	10^{-2}	1 cm = 0.01 m
milli	m	0.001	10^{-3}	1 mm = 0.001 m
micro	μ	0.000001	10^{-6}	1 μm = 0.000001 m
nano	n	0.000000001	10^{-9}	1 nm = 0.000000001 m
pico	p	0.000000000001	10^{-12}	1 pm = 0.000000000001 m

English Units: 1 inch = 2.54 cm, 1 foot = 12 inches, 1 yard = 3 feet, 1 mile = 1760 yards, 1 mile = 5280 feet, 1 gallon = 128 fluid ounces, 1 quart = 2 pints = 32 fluid ounces, 1 pint = 2 cups = 16 fluid ounces.

Unit	Symbol	Meaning	Conversion Factor
kilo	k	1000	10^3
hecto	h	100	10^2
deca	da	10	10^1
deci	d	0.1	10^{-1}
centi	c	0.01	10^{-2}
milli	m	0.001	10^{-3}
micro	μ	0.000001	10^{-6}
nano	n	0.000000001	10^{-9}
pico	p	0.000000000001	10^{-12}

METRIC CONVERSION CHART

when you know	multiply by	to find	when you know	multiply by	to find
length					
millimeters	0.04	inches	grams	0.035	ounce
centimeters	0.39	inches	grams	0.032	ounce (apoth.)
meters	3.28	feet	kilograms	2.20	pounds
meters	1.09	yards	kilograms	2.68	pounds (apoth.)
kilometers	0.62	miles	tons (1,000 kg)	1.10	short tons
inches	25.40	millimeters	ounces	28.35	grams
inches	2.54	centimeters	ounces (apoth.)	31.10	grams
feet	30.48	centimeters	pounds	0.45	kilograms
yards	0.91	meters	pounds (apoth.)	0.37	kilograms
miles	1.61	kilometers	short tons (2,000 lb)	0.91	metric tons
speed					
miles per hour	1.61	kilometers per hour	degrees Fahrenheit	$(^{\circ}\text{F} - 32) \div 1.8$	degrees Celsius
kilometers per hour	0.62	miles per hour	degrees Celsius	$(^{\circ}\text{C} \times 1.8) + 32$	degrees Fahrenheit
volume					
milliliters	0.20	teaspoons	prefix	symbol	factor
milliliters	0.07	tablespoons	exa-	E	10^{18}
milliliters	0.03	fluid ounces	peta-	P	10^{15}
liters	4.23	cups	tera-	T	10^{12}
liters	2.11	pints	giga-	G	10^9
liters	1.06	quarts	mega-	M	10^6
liters	0.26	gallons	kilo-	k	10^3
cubic meters	35.31	cubic feet	hecto-	h	10^2
cubic meters	1.31	cubic yards	deca-	da	10^1
teaspoons	4.93	milliliters	deci-	d	10^{-1}
tablespoons	14.79	milliliters	centi-	c	10^{-2}
fluid ounces	29.57	milliliters	milli-	m	10^{-3}
cups	0.24	liters	micro-	μ	10^{-6}
pints	0.47	liters	nano-	n	10^{-9}
quarts	0.95	liters	pico-	p	10^{-12}
gallons	3.79	liters	fermi-	f	10^{-15}
cubic feet	0.03	cubic meters	atto-	a	10^{-18}
cubic yards	0.76	cubic meters			

Publisher's Design & Production Services

Chemistry Conversion Factors and Constants

METRIC CONVERSION FACTORS

Prefix	Abbreviation	Conversion Factor	For Example	For Example
Mega-	M	1,000,000	10^6	1 Megabyte = 1×10^6 bytes
kilo-	k	1,000	10^3	1 kilometer = 1,000 meters
deci-	d	0.1	10^{-1}	1 deciliter = 0.1 liters
centi-	c	0.01	10^{-2}	1 centimeter = 0.01 meters
milli-	m	0.001	10^{-3}	1 milliliter = 0.001 liters
micro-	μ	0.000001	10^{-6}	1 microgram = 10^{-6} grams
nano-	n	0.000000001	10^{-9}	1 nanometer = 10^{-9} meters
pico-	p	0.000000000001	10^{-12}	1 picometer = 10^{-12} meters

OTHER CONVERSION FACTORS AND CONSTANTS

Weight/Mass	Volume	Length/Distance
16 ounces = 1 pound 1 kilogram = 2.2 pounds 454 grams = 1 pound 1 ton = 2000 pounds	1 liter = 1.0567 quarts 1 mL = 1 cm ³ 1 gallon = 3.78 liters 1 gallon = 4 quarts = 128 fluid ounces 1 quart = 2 pints = 32 fluid ounces 1 pint = 2 cups = 16 fluid ounces	1 inch = 2.54 centimeters 1 mile = 5280 feet = 1.609 kilometers 1 yard = 3 feet = 36 inches = 0.9144 meters 1 meter = 39.37 inches = 3.281 feet = 1.094 yards 1 kilometer = 1094 yards = 0.6215 miles
Density of Water: 1.00 g/mL	Energy: 1 cal = 4.184 J	
Time 1 year = 365 days = 12 months = 52 weeks 1 day = 24 hours 1 hour = 60 minutes 1 minute = 60 seconds	Temperature $^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$ and $^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$ Kelvins = $^{\circ}\text{C} + 273.15$	
Pressure Units: 1 atm = 760 mmHg = 101.325 kPa = 101325 Pa = 1.01325 bar = 14.7 psi = 29.92 inches Hg		
Useful Constants: Avogadro's Number (N_A) = 6.02×10^{23} items / mole Ideal Gas Constant (R) = 0.0821 $\frac{\text{L} \cdot \text{atm}}{\text{mol} \cdot \text{K}}$	Speed of Light (c) = 3.00×10^8 m/s Planck's Constant (h) = 6.63×10^{-34} J · s	

What is the density? lead if a cube of lead has an edge length of 2.00 cm and a mass of 90.7 g? Scientists mainly use the SI (International System) or metric systems. When the jewelry store is submerged in the graduated cylinder, the total volume increases to 61.2 mL. The unit SI for density is kilogram per cubic meter (kg/m3). One kilogram is about 2.2 pounds.

1
text{density}
=

frac{
text{mass}
}
{
text{volume}
}

{\displaystyle }

Gold is a form of currency for centuries. Determine Density of this jewel. The units They have been used by the National Institute of Standards and Technology (NIST) of the United States since 1964. How would (a) and (b) be different if the liquid in the tank was ethanol instead of water? What is always what when mass > volume? Assuming that the jewelry is made of only one substance, what substance is it likely to be? a) Relative volumes are indicated for cubes of 1 m3, 1 dm3 (1 L) and 1 cm3 (1 mL) (not in scale). Drive Length standard length in both SI and the original SI the meter (m). What is the mass, volume and density the yellow block? The SI ice cream sold in quarters (a unit family-based, non-SI), pints (0.5 quart), or gallons (4 quarters). This box contains one cubic meter of water or any other substance. Check your learning Remove all blocks from the water and add the green block to the water tank, placing it approximately in the center of the tank. One liter is about 1.06 quarters. A graduated cylinder initially contains 48.6 mL of water. In many cases, we find it convenient to use unit prefixes which produce units fractional and multiple, such as microseconds (10 A6 seconds) and megahertz (106 hertz), respectively. Visit this density simulation PhET and select the same volume blocks. Why? (b) The diameter of a is compared to the edge length of a 1-cm3 (1-mL) cube. TO KNOW MORE FROM QUESTIONSANSWERED.NET QUESTIONSANSWERED.NET stnemerusaem rof nosirapmoc fo dradnatsA Atinu jsaAtinUAAAd lanoitanretni emA AtsyS el(stinU fo metsys lanoitanretni eht ni tnemeerga lanoitanretni yb desif sdradnatsA A:stinU fo metsys lanoitanretni stinu IS emit fo tinu IS A A: dnoces 3mc 1 ot lauge ,retit a fo 000,1/A A:JLnt retitllim sdray 490.1 yletamixorppa = m 1 ,htgnel fo tinu IS dna cirtem dradnatsA A:Jnt retem 3mc 000.1 = L 1 ,emulov fo tinu)retemiced cibuc ,osia(A A:JL(retit tcejbo na fo noisnemid ene fo erusaeM A:htgnel sdnup 2.2 yletamixorppa = gk 1 ,ssam fo tinu IS dradnatsA A:Jk(margolik C A^AO = K 51.372 ,erutarepmet fo tinu IS A A:JKI nivlek tcejbo ro ecnatsbus a rof emulov ot ssam fo oitarA Aytised emulov fo tinu IS-A A:J3m retem cibuc mc 1 yltxace fo htgnel egde na htw ebug a fo emulovA A:Jcc ro 3mc retemitnee cibuc elacs siht no CA^A 001 ta slob dna CA^A 0 ta sezeerf retaw ,erutarepmet fo tinu A A:CA^A suisleC yrassolG ,ytised fo tinu a enifed ot htgnel dna ssam fo stinu esab eht dna ,emulov fo tinu a enifed ot htgnel fo tinu esab eht esu nac ew ,elpmaxe roF .noitaton cifitneics dna mrof lamiced gnidulcni ,syaw tnereffid ni detneserper eb nac tnemerusaem eht ni rebmun eHT .3A AeruigiF ,tnuoma lahtel eht semit 01 naht erom si g 001 fo esod elgnis a tub ,tnaslunvoctna na sa evitceffe eb nac yad rep semit eerht nevig gm 001 ,erid eb nac secneqnesoc eht tub ,esod eht gnivig lanoisseforp lacidem eht ot gnisfnoc eb siht lliv ylno toN ,yrtisimehc fo sniamod ciposorcim dna ciposorcam eht htob ni ygrene dna rettam fo roivahab eht ebircsed taht swal dna ,seiroeht ,sesehtophy eht fo tsom fo sisab eht si taht noitamrofni ciposorcam eht edivorp stnemerusaem smetsys tinu rehto dna cirtem eht ni snoisrevnoc dna snoitaluclac tinu cisab mrofrep emit dna ,erutarepmet ,ytised ,emulov ,ssam ,htgnel fo stinu dna seitreporp eht ebircseD yitnauq a fo strap cisab eerht eht yttimedl tnemerusaem fo sseocp eht nialpxE :ot elba eb lliv uoy ,noitces siht fo dne of space occupied by an object While the number and the are explicitly represented when a quantity is written, the uncertainty A is an aspect of the measurement result that A piA is implicitly represented and will be discussed later. Subtract the lowest number from the highest number and then label the value as A @ AAP.A @ A AUse a Differential Pressure Gageinstead of using a complicated mathematical problem, there are differential pressure meters available. TableA 3. For example, a length of 1000 meters A also called kilometer because the prefix kilo means A @ AAmila,AA which in scientific notation A 103 (1 kilometer = 1000 m = 103 m). Density of a substance A the ratio of the mass of a sample of the substance to its volume. There is a great variety reasons to measure differential pressure, as well as applications in HVAC, hydraulics, research and technology. Enter the mass and volume values for the block so that the mass in kg is less than the volume in L. List the colors of the block in order from the density 'lower' to higher'. Then, it will occur an automatic calculation. AWill use a variety instruments and tools equipped with humidity sensors and temperature probes, as well as those that can be adjusted to make additional readings.AWill consider a myriad of factors before reaching the final value A A differential pressure. One cubic centimeter A also called milliliter (mL) and A 1/1000 of a liter. A meter is about an inch, a foot, a yard, or a mile? The relative lengths of 1 m, 1 yd, 1 cm and 1 in. The standards for these units are set by an international agreement, and are called the International System of Units or Unit SI (from French, Le SystA)me International dA @ AAUnitA). A unit of most commonly used volume' derived from the decimeter (0.1 m, or 10 cm). Alternative, you can use hours, days and years. The initial units of the metric system, which eventually evolved into in System SI, were established in France during the French Revolution. Choose a different Mystery Block and determine its mass, volume, density and probable identity. This way, the gauge will also update the differential pressure before it is displayed on the signal rings. The average mass of the mosquito is about 0.0 000 025 kilograms, which can be written as 2.5 A 10Ae Ae6 kg. Suppose a doctor prescribes phenobarital to control the patient's epileptic seizures and establishes a dosage of "100" without specifying the units. A large jewel has a mass of 132.6 g. This PhET simulation illustrates another way to determine density, using the displacement of water. 103 10e Ae2 0.1 10e Ae3 1.000,000 0.000 001 Indicate the prefix name and quantity indicated by the following symbols used with SI base units. The standard SI unit of volume is defined by the basic unit of length (Figure 3). Common unit prefixes Prefixes Symbol Factor Example femto f 10AeAe15 1 femtosecond (fs) = 1 AA 10AeAe15 m (0.000 000 000 001 m) peak p 10AeAe12 1 picometer (pm) = 1 AA 10Ae12 m (0.000 000 000 001 m) nano n 10Ae9 4 nanograms (ng) = 4 aa 10Ae9 g (0.000 000 004 g) micro i/4 10Ae6 1 microliter (lAeL) = 1 aa 10AeAe6 L (0.000 001 L) milli m 108 Ae3 2 millimol (mmol) = 2 aa 10AeAe3 mol (0.002 mol) c 10AeAe2 7 cm 10AeAe1 1 decliter (dL) = 1 aa 10AeAe1 L (0.1 L) kilo k 103 1 kilometre (km) = 1 aa 103 m (1000 m) mega M 106 3 megahertz (MHz) = 3 aa 106 Hz (3,000,000 Hz) gi G 109 8 gigayears (Gyr) = 8 AA 109 yr (8,000,000,000,000 Gyr) tera T 1012 5 terawatts (TW) = 5 AA 1012 W (5,000,000,000,000,000,000 W) Need an update or more practice with scientific notation? In order to scam people into paying for a gold brick without actually investing in a gold brick, people considered filling the tanks with empty gold brick with lead for the buyers think that whole brick A gold. These are more! more! And easier to use than manual calculations. Footed further measurements for manual calculation that you work with a tube, take that measurement and label it as A e a,~ A "D.a, a C oeI has already measured the density of the fluid and labeled as A e a,~ A "P. K = (1.59923 XPX (D ^ 4) XP) / (W ^ 2). List the colors of the block in order from the smallest to the larger mass. Every measure has a quantity, a unit for comparison and uncertainty. The longer distances are often reported in kilometers (1 km = 1000 m = 103 m), while the shortest distances can be signaled in centimeters (1 cm = 0.01 m = 10 m) or millimeters (1 mm = 0.001 m = 10 ^3 m). Key equations [latex] text {densitA} = frac {text {mass}} {text {volume}} [/ latex] is a liter of an ounce, a pint, one liter or a gallon? They are shown (no effective size), in addition to comparing 2.54 cm and 1 in. and 1 m and 1.094 m. The original standards for the metro and the kilogram were adopted at 1799 and at the end of other countries. This tutorial describes several prefixes that are commonly used with standard metric system unit. Although there are exceptions, most liquids and solids have densities ranging from about 0.7 g / cm3 (the density of gasoline) to 19 g / cm3 (the density of gold). Make sure you take all relevant factors into account before starting the calculation, otherwise an inaccurate number will be displayed. How to calculate the differential pressure of PressureWhen calculating differential pressure measurements, remember that you are working with liquid system measurements. Figure 1. (Credit: national standards and technology institutes) The standard mass unit in the system is kilogram (kg). Choose one of the mysterious blocks and determine its mass, volume, density and its likely identity. Visit this Phet. Phet. retemitnee cibuc rep smarg esu netfo ew dna ,tinu tnoinvnocni na sa siht ,revewoh ,snoitautis ynam rof 3mc 348.0 fo htgnel egde na htw 33mc(ebug a fo emulov eht si tahw ,secalp lamiced eerht oT gniraeL ruoY koehC .Jgk 3AA01(margolik eht fo ssam eht fo 001f/ ot lauge yltxace si Jg(marg eHT ,ytised sti enimreted ot ecnatsbus a fo emulov dna ssam eht esu eW ytsineD ,s 601 A Aan pmaxe rof ,sexiferp etairporppa eht htw dessexpxe eb nac slavretni emit egral dna llamS ,emulov sti yb elpmas eht fo ssam eht gnidunf neht dna ,tcejbo eht fo emulov dna ssam eht gnidunf yletarapes sevlojni dohtem drawroftghirts tsom eht spahrep ,tcejbo na fo ytsined eht enimreted ot syaw ynam era ereht elihW L g 1.9 nodar 3mc/g 6.31 yrucrem 3mc/g 3.91 dlog L/g 38.0 noen 3mc/g 77.0A mc/g 0.9 reppoc L/g 41.1 negortin 3mc/g 97.0 enoteca 3mc/g 9.7 nori L/g 13.1 negyxo 3mc/g 97.0 longajte 3mc/g 09.0A#106.0)doow(kao L/g 02.1 ria yrp 3mc/g 0.1 retaw 3mc/g 29.0)CA^Ar 0 ta(eci)mta 1 dna (52) ta(sesaG sdiuqL sdiloS secnatsbus nommoC fo seitsineD ,dnalyraM ni yTSIN(ygolonhceT dna sdradnatS fo etutitsni lanoitaN eht ta desuoh si margolik epytotorp acipser siht ,tinu esab a fo selplitum ro snoitcarf era taht stinu esu ew semitemoS dc alednac ytsinetni suitni imul lom elom ecnatsbus fo tuoma A erepma terruc cirtelec K nivlek erutarepmet s dnoces emit gk margolik sсам m retem htgnel tinU fo lobmyS tinU fo emaN derusaeM ytreporP metsys IS eht fo stinU esaB ,stnemerusaem suisleC rof desu lobmys eerged eht dna A# eerged eht htob htw ,metsys IS eht ni dewolla osla si)CA^Ar(suisleC eerged eHT ,sdray 490.1 ro sehcnI 73.93 tuoba si retem eno ;)1 A# eruigiF(dray a naht regnoi sehcnI 3 tuoba si retem A ,skcolB yreetsyM tceles dna noitalumis noitalumis enoizes atseuQ ,azzehgнул e assam id esab id Atinu ellad etimifed onos Atised id Atinu el ,otnatrep ,edrev ocolb led Atised al eranimreteD ,esab IS Atinu etres ellad Atinu etiom eravired omissofo etavired IS Atinu ,ametisis nu ni itnup eud art enoisserp al aibmac emoc omerenimaseAA ,1 allebaT allen etacnele Atinu el odnazillitu ,ocirtem ametisis led atanroigga enoisrev anu IS Atinu ni ehciftneics inoizarusim ellad itatusti r omaitropir otlios iD ,arhbil 1 a onif otrauq nu isep ehc odom ni atarusim oniv ehbil 52.0 ad regrubmah nu eraraperp rep atasu enrac eL ,IS Atinu erlta etitodortni onnarrev visseccus lotipac ien ,jst adnoces al A esab id IS opmet id AtinuL opmet ,J2 arugiF(aicnaF ni otavresnoc A ehc ,oidir-ontilap id agel id ortnicic otrac nu ad otinifed aro A ,01 id eznetop erpmes onos lplitum o inoizarf etseuq am ,IS ametisis len Atinu id lplitum o inoizarf ehcna omaisU ,ortem nu etnemattase id idrob ied ezzehgнул noc acibuc alotacs anu erirtuosc ommertop ,auqca id obuc ortem nu eragore reP ,1 AallebaT ,odnoces id 854,297,992/1 ni aiggiav otouy nu ni ecul alled aznatsid al emoc atinifed aro A ,lirtem 1,0 etnemattase id idrob nu noc auqca'd obuc nu(auqca'd ortli nu id assam al emoc otinifed etnemairanigiro are omarmgolihc nU ,azzehgнул alled inoizarusim el osrevarta etnematteridni avort is emulov li am ,odnasep etnematterid eneitto is assam al ,etneuges oipmese'lleN ,L ni emulov led eroiggam ais gk ni assam al ehc odom ni ocolb li rep emulov II ,L/g 2,1 acric id A aira'lled ,oinimulla e inottam ,oiccaihg ,angel emoc ,ilairetam isrevid id Atised al erarolpse rep ArotalumiS ytsineD TEHf otseuq erazzillite , Atised e emulov ,assam art enoizaler allass 'Aip id enrepas reP ,2 AeruigiF ssaM ,ortem nu etnemattase id idrob led azzehgнул anu noc obuc nu ,J3m(obuc ortem nu A dradnats emulov II ,L/g 2,1 acric id A aira'lled Atised al ,sag i rep)L/g(ortil rep immarg e idiuiqil e idilos id Atised el rep four of the units is commonly used in chemistry. (The scientific notation A also known as exponential exponential 1 id assam anu ah ordnicic otseuq id assam assets al noc otteggo isaislauQ ,J3MD(ocibuc ortemiced nu id emulov nu eneitnoc ortemiced nu etnemattase odrob led ezzehgнул noc obuc nuU ,Atidimu'lla escirefir is emoc e 2OC onarusim is iuc ni igpassap id eires anu atropmoc elaznereffid enoisserp alled enoizarusim al ,2 allebaT allen itacnele onos itavellos onos 01 iuc a iretop i e itazzillitu issiferr 1 ,)K(nivleK li A IS arutarepmet id AtinuL ,ortemitnee nu etnemattase odrob led azzehgнул anu noc obuc nu id emulov li A 3mef ocibuc ortemitnee nU ,illaiq e isor ihccolb led Atised al animreteD 7occolb li af asoc 3mc /g 3.91 ,oro'lled alleuq emoc ednarg A non Atised aus al am ,asned aznatsos anu A obmpot li ,anoizunf noN ,osned 'Aip a osned onem ad isoiretsnil ihcolbi andiroQ 7emulov< assam al odnaug osac li erpmes A otseuQ ,ettase Atitnauq itneuges elled enoizacilplitom al eracidin rep IS Atinu noc itazzillitu issiferr jed olobmis li e mon li escirefnoc ollibrom led enoizanicav anu o azneufini id oploc nu id emulov li erawaleD led otats olled aera'l ecstinarag loocla iuc ni arutarepmet al ,aira id Atised alled onus led Atirovel al ytic amohalk a sallaD ad aznatsid al anul alled assam al :inoizarusim itneuges el rep etairporppa onos ehc etavired Atinu o IS esab Atinu el onacidin 3191 eliripa A 1 li duS oloP led amissam arutarepmet al oiclac ad opmac nu id aera'lled oro'lled Atised al onalporea nu id Aticovel al anicisp anu id emulov li elibomotu'na id assam al)sdray 583 ailgim 62(anotaram id arag anu id azzehgнул al :inoizarusim itneuges el rep etairporppa onos ehc etavired Atinu o esab Atinu el eracidin ,aciftneics o elamiced dohtem ni etatneserppar eresse onossp inoizarusim eL ,gk 501-A 89.2 emoc ottrics eresse ehcna 'Aup ehc ,immargolihc 000.892 id A RE002-777 GNIEOB aenil id oerea nu id olloed led omisam osep li ,oipmese dA ,elaiznesse acitametam ni atavort eresse Aup ortemogra otseuq id enoisiver anU How would (a) and (b) be different if the liquid in the tank was mercury instead of water? water? unit, a number may be insignificant, confusing, or potentially life-threatening. The IUPAC convention requires kelvin (all lower case) to be used for the word, K (upper case) for the symbol of unitA , and not the word A degreEA nA@ the symbol of the degree (AA^). Celsius degrees have the same magnitude as kelvin's, but the two scales place their zeros in different places. Therefore, you will need a tool like a manometer. Each measure provides three types of information: the size or magnitude of the measurement (a number); a comparison standard for the measurement (unAunitA); and an indication of measurement uncertainty. TableA 3 shows the densities of some common substances. Visit Mathematics Skills Review: Scientific notation to go beyond the basics of scientific notation. We use units SI as basic as meters, seconds and kilograms, so as unit derivatives, such as liters (by volume) and g/cm3 (by density). TableA 2. Follow these guidelines to learn how to measure it.Why@ Measure Differential Pressure?Measure Differential Pressure and monitor its pressure differences can have significant effects, water freezes at 273.15 K (0 AA^C) and boils at 373.15 K (100 AA^C) by definition, and the human body temperature A of approximately 310 K (37 AA^C). Those making these measurements usually use the temperature and humidity relative to obtain differential pressure measurements. Measurements provide critical quantitative information in the study and practice of chemistry. When using these meters, they control the necessary pressure at both points. When we buy a 2-liter bottle of a soft drink, we expect the volume of the soft drink to have been measured, so A twice as large as the volume each accepts to be 1 liter. One liter (L) A the most common name for the cubic decimeter. This will help you to determine the quantity between those two points. Visit this density PhET PhET and select Custom Blocks and then Personal Block. How are mass and density related for blocks of the same volume? One metre was originally specified as 1/10,000,000 of the distance from the North Pole to the equator. The abbreviation cc (per cubic centimeter) is often used by healthcare professionals. Fractional or multiple SI units are named using a prefix and the name of the base unit. Units, such as liters, pounds and centimeters, are standard comparisons for measurements. What is the mass, volume and density of the red block? Explain. Volume Volume is the measure of the amount of space occupied by an object. These measurements are used in liquid systems to calculate the pressure differences that the system has at different points. The conversion between these two units and the Fahrenheit scale will be discussed later in this chapter. If the cube in part 1 is copper and has a mass of 5.34 g, what is the density of copper with two decimal places? Temperature Temperature is an intensive property. Other units can be derived from these basic units. units.

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