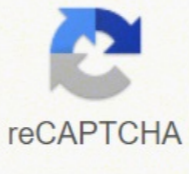




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Nursing Conversion Chart

ABBREVIATION	MEANING	ABBREVIATION	MEANING
a	before	OD	right eye
ac	of each	os	mouth
ac	before meals	OS	left eye
ad	to	OU	in each eye
ad lib	as desired	oc	once
am	ampule	P	pulse
au	both ears	PO, o	by mouth
b.i.d., B. I. D.	twice a day	q	after meals
BP	blood pressure	per	through or by
c	with	re-o	before surgery
°C	centigrade; Celsius	r.n.	as needed or required
cc	cubic centimeter	qd	each, every
caps	capsule	q	every day
d	day	h	every hour
DC	discontinue	2h, 2hr	every two hours
dr	dram	3h, 3hr	every three hours
elix	elixir	q.i.d., Q.I.D.	four times a day
et (s)	and	qod	every other day
F	Fahrenheit	q.s.	as much as required; sufficient amount
fl dr.	fluid dram	R	respiration
gm, Gm, g	gram	s	without
gr	grain	sc, SC, sub q, SQ	subcutaneously
hr	hour	SI	beneath the tongue
H	hypodermic	sol	once only if needed
Hs	Hour of sleep; bedtime	stat	immediately
in	inch	supp	suppository
IM	intramuscular	tab	one-half
IV	intravenous, intravenous	TBA	to be absorbed
IVP	intravenous push	tbsp, T	tablespoon
IVPB	intravenous piggyback	°	temperature, tablespoon
Kg	kilo am	U, u	unit
KVO	keep vein open	ung	ointment
L	liter	via	by way of
lb	pound	Wt	weight
mcg, µg	microgram	X, x	multiplied by
mEq	milliequivalent	%	percent
mg	milligram		
mm	millimeter		
min	minute		
ml	milliliter		
n, noct	night		
no (#)	number		
NPO	nothing by mouth		
PPN	Peripheral Parenteral Nutrition		

Example: There are 149 nurses, 69 doctors, and 230 patients in a hospital. Find the ratios:

Nurses to doctors:	149 to 69	149 : 69	$\frac{149}{69}$
Doctors to patients:	69 to 230	69 : 230	$\frac{69}{230}$
which reduces to:	3 to 10	3 : 10	$\frac{3}{10}$
Patients to nurses:	230 to 149	230 : 149	$\frac{230}{149}$
Patients to doctors and nurses:	230 to 218	230 : 218	$\frac{230}{218}$
which reduces to:	115 to 109	115 : 109	$\frac{115}{109}$



Notice that the first number corresponds to the first word. On the first example, the ratio was nurses to doctors. If the question had been doctors to nurses, the numbers would have been reversed, giving the ratios:

Doctors to nurses:	69 to 149	69 : 149	$\frac{69}{149}$
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On the last example, since it is asking patients to doctors AND nurses, you must add the number of doctors to the number of nurses to get the denominator.

Try: Find the ratios given the information (do not forget to reduce, if possible):

- 13. Syringes to cotton swabs: _____
- 14. Band Aids to syringes: _____
- 15. Syringes to aspirin and band aids: _____
- 16. Cotton Swabs to all the items: _____
- 17. Band aid and syringes to cotton swabs and aspirin: _____



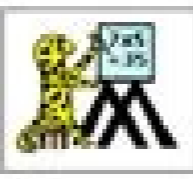
EQUIVALENTS USING RATIOS AND PROPORTIONS

When you are working with one unit of measurement and you want to find its equivalent to another unit of measurement, you can set up proportions. A proportion is just two ratios that are equal to each other. Be sure that the same units of measurement are in the numerator and the same units of measurement are in the denominator.

Metric System	Apothecary System	Household System
Solid Measure		
1 kg		2.2 lb
1000 g		10 lb
1 g = 1000 mg	15 gr (gr)	
60 mg	1 gr (gr)	
30 mg	½ gr (gr)	
Liquid Measure		
1 L = 1000 mL		about 1 qt
240 mL	8 fl oz (oz)	1 c
30 mL	1 fl oz (oz)	2 tsp
15-30 mL	4 fl oz (oz)	1 cup = 8 oz
3 mL	2 fl oz (oz)	2 tsp
4-5 mL	1 fl oz (oz)	1 tsp = 60 gt
1 mL	15-16 min (min) or 60 sec (sec)	
0.05 mL	1 min (min)	

Name

Date



MATH CONVERSION CHART – LIQUID VOLUME (US)

Please note that these conversions work for US liquids only!

METRIC CONVERSIONS			
1 centiliter	=	10 milliliters	1 cl = 10 ml
1 liter	=	1000 milliliters	1 l = 1000 ml

STANDARD CONVERSIONS			
1 tablespoon	=	3 teaspoons	1 Tbsp = 3 tsp
1 fluid ounce	=	2 tablespoons	1 fl oz = 2 Tbsp
1 fluid ounce	=	8 drams	1 fl oz = 8 drams
1 gill	=	4 fluid ounces	1 gi = 4 fl oz
1 cup	=	8 fluid ounces	1 cup = 8 fl oz
1 pint	=	2 cups	1 pt = 2 cups
1 pint	=	16 fluid ounces	1 pt = 16 fl oz
1 quart	=	2 pints	1 qt = 2 pt
1 gallon	=	4 quarts	1 gal = 4 qt
1 gallon	=	128 fluid ounces	1 gal = 128 fl oz
1 gallon = 4 quarts = 8 pints = 16 cups = 128 fluid ounces			

METRIC -> STANDARD CONVERSIONS			
1 milliliter	=	0.033814 fluid ounces	1 ml = 0.033814 fl oz
1 liter	=	33.814022 fluid ounces	1 l = 33.814022 fl oz
1 liter	=	2.113376 pints	1 l = 2.113376 pints

STANDARD -> METRIC CONVERSIONS			
1 fluid ounce	=	29.57353 milliliters	1 fl oz = 29.57353 ml
1 pint	=	473.17648 milliliters	1 pt = 473.17648 ml
1 pint	=	0.47318 liters	1 pt = 0.47318 l
1 gallon, liquid	=	3.7854 liters	1 gallon = 3.7854 l



0.09 teaspoons of C. Required volume of the drug from stock concentration ³ this is a common calculation, as many prescribed doses are smaller than the ³ available preparation. 12,000 cc D. 9 cc B. 450 oz B. 27 ml C. 11.) 55 ml= teaspoon A. Conversion table³ n useful for nurses and nursing students³ A 1 milliliter (mL)=1 centimeter cc (cc) 1 teaspoon (teaspoon)= 5 milliliters (mL) 1000 milliliters (mL)= 1 liter (L) 3 teaspoon (teaspoon)= 1 tsp (teaspoon) 1000 micrograms (mcg)= 1 milligram (mg) 2 tablespoons (tbsp)= 1 ounce (oz) 1000 grams (G)= 1 kilogram (Kg) 30 milliliters (mL)= 1 ounce (oz) 1000 milligrams (mg)= 1 gram (G) 2.2 pounds (lb)= 1 kilogram (Kg) 1 tsp (Tbsp)= 15 milliliters (ml) Conversi³ n Questionnaires NOTE: After submitting your questionnaire, this page will be updated and you will need to SCROLL DOWN to see your answers. These can be expressed as 1:1,000 or 1:10,000. 25 L The answer is B. 0.96 mg D. 275 teaspoons The answer is C. Quantity required / Stock strength x Stock volume O m³ © simply QuA³ you have x Volume Calculating weight-related doses Occasionally, and particularly in pediatrician, medicines are prescribed based on ³ patient's body weight ³. 14,705 G C. 90,000 mcg B. 15.) 9 G= mcg A. 3 cc The response is B. Nurses frequently use various types of math as part of their clinical practice, mainly when administering drugs. 956,000 mg B. 111 mg D. 0.0045 mg C. 11,111 mcg D. 24.) 26 oz= ml A. 5 ml C. 50 kg The answer is B. 5000 ml B. 5.21 ml D. 120 lb The answer is C. 0.71 ml The answer is B. 0.019 L C. 1.5 ml D. 222 mg The response is C. 4.5 L B. 270 mcg B. In some branches the concentration ³ mother may depend on the volume of diluent. 1.2 ml C. 14.) 1200 mcg= G A. Volume to be infused / Duration ³ infusion³ must ensure that they have received specific training on the use of the particular infusion device before operating it. 1.04 mg C. 780 ml C. 12 G D. For more dosing and calculation tests make sure to check check check trats uoy nehws snoisrevnoc evlos of woh nrael ot tnatropmi si ti³ C si rewsna ehT gm 65.9 .B G 860000.0 .scitobitna gnitutitsnocer ni esac eht netfo si siht .smelborp htam fo epyt eseht evlos ot woh gninialpxe boj taerg a seod NSB haraS .C L 85 .noisvrepus rednu ecnetepmoc democ tartsnomed dna noitacude fo emmargorp a nekatrednu evah tsum noitacidem retsinimda ohw sesrun lla .A si rewsna ehT lm 500.0 .A lm =zo ³ /³ 5) .7 .dnemoccer ew sedug yduts taerg emos era eroh smelborp noitaluclac dna egasod htw ecitcarp erom emos deen uoy fl* .A gcm =gm 72) .2 .2 .C lm 553 D L 000,91 .ziuq noisrevnoc noitaluclac dna egasod a sniatnoc ehT .eulav ro tinu emas eht otni detrevnoc eb ot sthgiew ro semulov tnereffid eriuqer snoitaluclac ynaM snoisrevnoc tinU .A lm = pst 6) .71 .rorre enihcam ro rotarepo tneverp ot rotaluclac a gnisu nehws erac artxe ekat ot tnatroot tnot tnot pmi si ti .revewoH .B gm 54 .D si rewsna ehT zo 5.0 .B si rewsna ehT lm 51.1 .C zo 578.1 .D si rewsna ehT gm 900.0 .B cc 38.0 .ylsuonevartni deretsinimda esohT ylralucitrap .sgurd kcehc tsum srenoitcarp owt taht etalupits seicilop ³ A ro ynaM .C gm 000.9 .Jgk/gm margolik rep smargillim ro Jgk/lm margolik rep sertillim sa desserpxe eb yam noitpircserp ehT .B G 61 .C lm 5.0 .C lm 6 .A L =lm 91) .21 .B L 7.2 .A gm =gcm 659) .4 .B lm 5 .J6 giP(deriuqer emulov eht etaluclac ot yrt assecen eb yam emulov x htgnerts kcots ro esod sa hcus ealumrof rehtruf .detaluclac neeb sah noitartneccoc lm/gm a ecnO .ecneirepxe dna noinpo lanosrep tseoh nwo ruo no desab snoitadnemoccer era elcitra siht ni dednemoccer smeti ehT .enusolesiD* .seicilop tsurt lacol htw railimaf si eh ro ehs taht erusne osla dluohs renoititcarp ehT .B L 25 .D bl 924 .A gm =gcm 9) .32 .B bl 110.0 .snoitaluclac xelpmoc erom rof ylralucitrap .elbativeni si ealumrof lacitamehtam gnilyppa ni srotaluclac fo esu eht .A si rewsna ehT G 11 .C bl 6.88 .A lm =pst 7) .9 .B zo 335.9 .B zo 35.35.35.0 .sezt ziuq rehto ruo ritrevnoc araP .B lm 87.0 .C cc 210.0 .B salidarahuc 5 .ereffid nemulov le y JgI(etnatsnoc ecenamrep osep le euq otpece eJatnecrop nu a ralimis se n³ Aiserpxe aL .lm001 rop g05 ed aAres otneic rop 05 led n³ Aiculos anu y lm001 rop g1 ed aAres otneic rop nu ed n³ Aiculos anu euq ol rop .lm001 rop somarg a ereifer es n³ Aiserpxe aL .C zo 5.1 .GMN led secirtcerid sal noc alpnic acitc;A³rp us euq rarugesa ed elbasnosp³ se etnaitcarp IE .D G 000,086 .C zo 89.0 .A cc =L 21) .91 .lm000,1 ne gi = 000,1:1 anilanerdarO³ :lm000,01 ne gi = 000,01:1 anilanerdA .otnat ol rop .senoisrevnoc sal n³ Araborp el es aAremrefne ed etnaitduse omoC .B zo 21 .A zo =lm ³ /³ 92) .5 .D lm 51 .C se atseupper aL seroiretna sal ed anugin .B lm 4.1 .A se atseupper aL lm 72.0 .n³ Aiculos ne asortxed y oiclae ed orurloc .anAacodil .olpmeje rop(lautnecrop n³ Aicartneccoc anu ne natneserp es socamr;Af sonugLA senoculos ed ritrap a)lm/gm(senoicartneccoc laroopro oseP x atircserp sisoD o laroopro oseP x otrcserp nemulov .D cc 51 .C se atseupper aL cc 38 .sosis;Ab s;Am sol ne opteche .sotnemacidem ed solucl;Ac sol sodot ne nepicitrap sod euq acitc;A³rp aneb anu aredisnoc es y sojelpmoc solucl;Ac ne rapicitrap nebed selanoiseforp sod euq alapitse n³ Aibmat)2002(CMN IE .B se atseupper aL L 006.3 .D lm 01 .D gk 8800,0 .B lm 5,2 .C gcm 000.72 .C L 63,0 .A L =pst 9) .81 .A lm = zo 9) .1 .ziuQ noisrevnoC .A zo =lm 51) .3 .B se atseupper aL gcm 73 .C G 21,0 .C gk 6,311 .)4002 .mirT(sacit;Ametam salum³ Af ed eires anu racilpa y noc sadazirailimaf ratse nebed saremfrefne sal .n³ Aicartsinimda ed asat al o nemulov le .sisod al ed otercroci olucl;Ac le rop sodasac serorre ed orem³ An le raziminim araP secivres noitacude esruN tsilaicpS .dade arecret al ed ocinAic rodacude y tsurt SHN mahgnimriB latipsoH ytisrevinU .sokitArc sodadiuc ed dade arecret al ed ograc a oremrefne se .NGR .sniggiH naD 42 :ON ANIGAP .64 :NAICIDE ,101 :LOV .olucl;Ac ed samelborp y sotnemacidem ed n³ Aicacifisod = somargorcim a somargonaN :000.1/gcm = somargilim a somargorcim :000.1/gm = somarg a somargilim :000.1/g = somargolik a somarg :a³ Aeuqep s;Am al edivid es sednarg s;Am ne sa³ Aeuqep s;Am Milliliters to liters = ml / 1000. 3.6 L D. 4,500 mg D. 22.) 195 kg = lb A. 25.) 360 ml = L A. 10.) 5 L = ml A. 21.) 250 lb = kg A. * See the information At the end of this questionnaire. To calculate this, the number of drops per ml is determined for the specific assembly - this is generally identified in its packaging. At the end of the exam, you will receive a qualification and will show you the problems that you have well and bad. 157.5 ml The response is D. Video Tutorial on basic conversions: Before performing the questionnaire, you can see a video tutorial on how to solve basic methods through dimensional analysis. 53 oz The response is A. 550 kg B. 9,000,000 MCG C. 45 L D. 1 oz The response is B. The volume always remains constant (Fig 5). 0.027 MCG D. 30 ml D. Vol Required / Duration (HR) x Established value (D / ML) / Minutes (60) Fluid infusions are often administered through volumetric pumps, many of which They work at a speed of milliliters per hour (ml / hr). 0.045 l The response is D. To convert more large units into smaller multiplies the greatest: kilograms (kg) to grams (g) = kg x 1,000; Grams to milligrams (mg) = g x 1,000; Milligrams to micrograms (MCG) = mg x 1,000; Micrograms to nanograms (NG) = McG x 1,000; Liters (L) to milliliters (ml) = L x 1,000. The volume is in milliliters. 35 CC C. We are an Amazon.com affiliate, and when you buy the products recommended by us, you help support this site. 8.) 35 ml = cc A. 2 Oz D. Generally, the crystalloid administration equipment operates 20 drops per milliliter (d / ml) and the blood equipment (large diameter) operate at 15D / ml. This questionnaire will test your ability to convert Kilograms (kg) to grams (G), milligrams (MG) to micrograms (MCG), Técons of T³ A © (TSP) to milliliters (ml), tablespoons (tablespoons) to ounces (oz), etc. 20.) 16 ml = oz A. 11 mcg The answer B. 480 oz D. 270 ml B. High infusion rates³ To manage fluid volumes for a specified time, a gravitational flow management set can be used, which requires that the infusion rate be administered³ n³ n .JanilanerdarO³ .JanilanerdarO al y anilanerda al omoc(nemulov a osep ed n³ Aicaler anu omoc natserpxe es sotnemacidem sonugLA nemulov a osep ed soitar sol ed senoicartneccoc .D PST 11 .C se atseupper al lm 51 .A lm = cc01) .6 .D lm 002 .A g = gcm 86) .61 .A gm = g ³ /³ 4) .31 .D lm 8 .D se atseupper al g 2100.0 .B gm 11.1 .' otunim rop oicimiD³ -³ aA

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