Metric conversion practice problems worksheet

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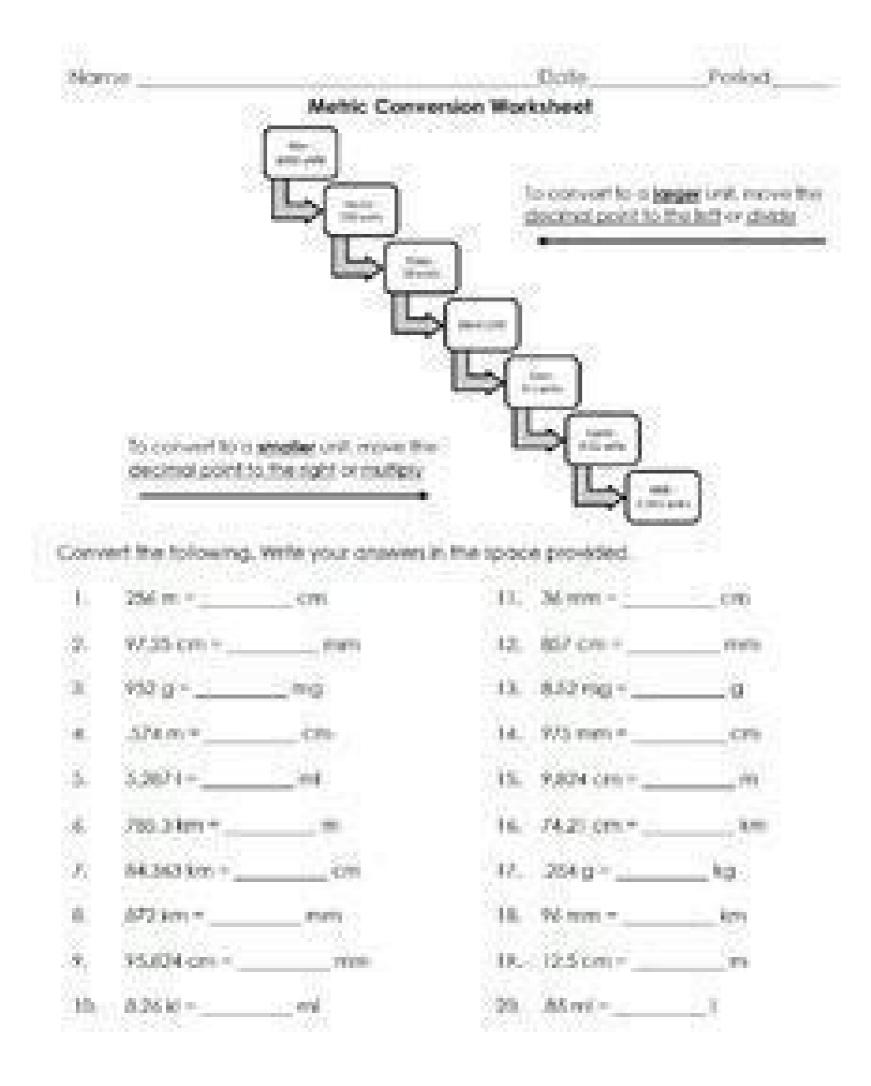
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## **Converting English and Metric**

4.5				
1)	ounces	Ξ.	10.5	grams
2)	mph	=	14.5	kmph
3) 9.5	cubic yards	=		cubic meters
4)	pounds	=	4.5	kilograms
5) 8.5	fluid ounces	=		milliliters
6) _20	square yards	=		square meters
7)	teaspoons	=	11.5	milliliters
8)	cups	Ŧ.	14	liters
9)	square inches	=	3.5	square centimeters
10)	inches	=	9	centimeters
11) 13.5	cubic feet	Ŧ		cubic meters
12) 2	feet	Ξ.		meters
13) 15	cubic inches	Ħ.		milliliters
14) 25	cups	=		liters
15)	teaspoons	=	19	milliliters
16)	miles	=	1	kilometers
17) 4	tablespoons	Ξ		milliliters
18) _22	tablespoons	=		milliliters
19)	gallons	=	13	liters
20) <u>6</u> Metric Mania	gallons	=	Nam	liters
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	Conversio	n C	Challen	Math-Aids.Com
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Metric Mania         Write the correct abbrevia         1) Kilogram         2) Meter         3) Gram         Try these conversions, u         1) 2000 mg = g         2) 104 km = m         3) 480 cm = m	Example a conversion of the formula of the formula of the second method of the second method of the second of the	n C	<b>Challen</b> nit.  kg kg kg	Math-Aids.Com

19) 536 cm 🔿 53.6 dm 20) 43 mg 🔿 5 g 21) 3.6 m 🔾 36 cm

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Metric conversion practice worksheet. Metric conversion practice problems.

If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains \*.kastatic.org and \*.kastatic.org are unblocked. This Measurement Worksheet will produce twenty conversion problems per worksheets. Click here for More Measurement Worksheets > English Finish!! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone of your web browser. If you see a message asking for permission to access the microphone of your web browser. If you see a message asking for permission to access the microphone of your web browser. measuring Create an unlimited supply of worksheets for conversion of metric measuring units for grades 2-7. The worksheets can be made in html or PDF format - both are easy to print. You can also customize them using the generator below. Conversions between measuring units are studied all through elementary school. Starting typically in grade 2 or 3, children practice easy conversions, such as changing a bigger unit into smaller units (4 cm into 40 mm) and the other way around (300 cm = 3 m). Later on they learn how to use decimal numbers in the conversions. Since the metric system is based on number 10, conversions between the units are very easy: they only involve multiplying and dividing by 10, 100, 1000, etc. On this page you will find metric unit worksheets for: Grades 2-3 Grade 4 Grade 5 Grades 6-7 Metric units formed with prefixes Basic instructions for the worksheets for: Grades 2-3 Grade 4 Grade 5 Grades 6-7 Metric units formed with prefixes Basic instructions for the second page of the file. You can generate the worksheets either in html or PDF format — both are easy to print. To get the PDF worksheet in html format, push the button "View in browser" or "Make PDF" or browser (choose File -> Save) and then edit it in Word or other word processing program. Sometimes the generated worksheet using the same options: PDF format: come back to this page and push the button again. Html format: simply refresh the worksheet page in your browser window. The conversions in the worksheet below are easy, as they only involve 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). Whole centimeters and millimeters (3 cm = \_\_\_\_\_ cm) or writing a multiple of ten of the smaller unit in terms of the larger unit (such as 50 mm = \_\_\_\_\_ cm). Create PDF Whole meters and centimeters (3 m = m or 500 cm = m) View in browser Create PDF Whole kilometers, and centimeters, and centimeters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers, and centimeters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers, and centimeters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers and meters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers and centimeters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers and meters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers and meters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers and meters (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 m = m or 100 cm = m) View in browser Create PDF Whole kilometers (3 \text{ m} = \text{ m or } 100 \text{ cm} = \text{ m}) View in \_ cm or 40 mm = \_ cm) View in browser Create PDF Whole kilograms and grams(8 kg = \_ g or 9,000 g = \_ kg) View in browser Create PDF Whole liters and milliliters(6 L = \_ ml or 6,000 ml = L) View in browser Create PDF Mixed practice of all metric units in this section (mm, cm, m, kq, q, L, ml) View in millimeters(3 m =browser Create PDF Grade 4 Convert between centimeters and millimeters (3 cm 4 mm =  $_{mon}$  72 mm =  $_{cm}$  mm) View in browser Create PDF Convert between kilograms and grams(4 kg 900 g =  $_{go}$  gor 2,490 go L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Mixed practice - easy(mm, cm, m, km, kg, g, L, ml) View in browser Create PD Grades 6-7 In grades 6 and 7, students continue working with decimal numbers in the conversions. They also study the various units formed with prefixes at least from milli to kilo, such as millimeter, decimeter, meter, m between a range of metric units with prefixes milli-, centi-, deci-, (basic unit), deka-, hecto-, and kilo-. Metric system: convert between the units of weight (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mm, cm, dm, m, dam, hm, km) View in browser Create PDF Metric system: convert between the units of weight (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of length (mg, cg, dg, g, dg, g between the units of volume (ml, cl, dl, L, dal, hl, kl) View in browser Create PDF Metric system: convert between the units of length, weight, and volume View in browser Create PDF Use the generator to make customized worksheets for conversions between the units. You can choose to include inches, feet, yards, miles, ounces, cups, pints, guarts, gallons, ounces, pounds, millimeters, centimeters, meters, kilograms, kilograms, liters, and milliliters. You can also make worksheets for the metric system: units with the prefixes milli, centi, deci, deka, hecto, and kilo. Measuring Units Worksheets Level of difficulty: 1 (e.g. 2 ft = mil) 2 (e.g. 25 in = in) 4 (always using decimals, e.g. 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. Please check what their effect are by making a worksheet, and then come back to this page by using in) 3 (e.g. 218 in = ft the 'back' button on your browser. 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 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 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 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimal difficulty levels for certain type of conversions will not accept decimal digits at all. Please check what their effect are by making a worksheet, and then come back to this page by using the 'back' button on your browser. Conversions between individual units - check any number of these: km, hm, dam, m, dm, cm, mm kg, hg, dag, g, dg, cg, mg kl, hl, dal, L, dl, cl, ml Page orientation:Portrait Landscape (PDF worksheet only) Font: Arial Courier New Helvetica sans-serif Times New Roman Verdana Font Size: 8pt 9pt 10pt 11pt 12pt 13pt 14pt 16pt 18pt 24pt Cell Padding: Border: Extra vertical space below the problems: lines Additional title & instructions (HTML allowed) Key to Measurement workbooks include a variety of hands-on experiences related to the customary units of measurement. Group projects are included in addition to numerous individual activities. In Book 1, students learn how a linear measurement system is developed and then do activities related to measuring length. Book 2 focuses on length, perimeter, and area measures. In Book 3, the concept of area is further developed, and students experiment with weighing objects and measuring capacity, and they also learn about temperature and time. => Learn more Skip to Main ContentSkip to Navigation Math You Need > Unit Conversions Practice Problems Jump down to:Density | Scale If you do not have a list of common conversion factors in your book, you may wish to download and print this sheet of common conversion factors in your book, you may wish to download and print this sheet of common conversion factors in your book, you may wish to download and print this sheet of common conversion factors for the geosciences (Acrobat (PDF) PRIVATE FILE 40kB Sep3 09). open the link below to use while you make your calculations. If you need a reminder of the steps, you can download and print this worksheet (Acrobat (PDF) PRIVATE FILE 44kB Apr11 08) walking you through the steps for unit conversion. Finally, you can download a sheet that has all the problems (Acrobat (PDF) 48kB Jul25 09) on it so you can print it out and work them on your own. Problem 1:Imagine that you are driving your car in Canada. As you're driving along, you notice that the speed limit signs have numbers like 120 (on the highway) and 50 (in the city). As you start to speed up, you realize that the speed limit signs have numbers like 120 (on the highway) and 50 (in the city). As you start to speed up, you realize that the speed limit signs have numbers like 120 (on the highway) and 50 (in the city). fast you're allowed to go if the sign says: 120 km/hr Hide Let's do this using the steps you learned in the previous page. Write out the units you want to end with: Hide Determine appropriate conversion factors (in some cases, there will be more than one conversion factor for each of the units you have): Hide Since "hours" stays the same on the bottom, you only need one conversion factor: km to mi. So, you can write 1km = 0.6214 mi Evaluate appropriate arrangement for fractions (that is, what units belong in numerator (top) of fraction? What units need to be in denominator (bottom)? Remember, units cancel when one unit is in numerator and the other is in the denominator). Remember that when you multiply fractions (as you will in step 6 below), you can cancel units, km needs to be in the denominator so that we can cancel: Set up the conversion by writing the fractions in a row with multiplication signs in between: Hide Evaluate. Do the original units cancel so that you are left with appropriate units: Hide We cancel km and end with mi/hr (which is what we want!) Multiply across top and bottom: Hide If necessary, reduce the fraction. Hide Evaluate vour answer. Hide Is a speed limit of about 75 mph (mi/hr) a reasonable speed limit? If you got 0.75 or 75,000, would you recognize that it is not reasonable? 75 km/hr Hide Write out the units you have (when appropriate as a fraction): Hide Write out the units you want to end with: Hide Determine appropriate conversion factors (in some cases, there will be more than one conversion factor: km to mi. So, you can write 1km = 0.6214 mi Evaluate appropriate arrangement for fractions (that is, what units belong in numerator (top) of fraction? What units need to be in denominator (bottom)? Remember, units cancel when one unit is in numerator and the other is in the numerator in the numerator in the numerator in the numerator. Hide Since km is in the numerator in the numerator in the numerator in the numerator. original units, km needs to be in the denominator so that we can cancel: Set up the conversion by writing the fractions in a row with multiplication signs in between: Hide Evaluate. Do the original units cancel so that you are left with ONLY the units asked for? If not, repeat steps 3 and 4 until you are left with appropriate units. Hide We cancel km and end with mi/hr (which is what we want!) Multiply across top and bottom: Hide If necessary, reduce the fraction. Hide Evaluate your answer. Hide Is a speed limit? If you got 120 or 0.075, would you recognize that it is not reasonable? You can drive approximately 45 miles per hour 50 km/hr Hide Write out the units you have (when appropriate as a fraction): Hide Write out the units you want to end with: Hide Determine appropriate conversion factors (in some cases, there will be more than one conversion factors km to mi. So, you can write 1km = 0.6214 mi Evaluate appropriate arrangement for fractions (that is, what units belong in numerator (top) of fraction? What units need to be in denominator). Remember that when you multiply fractions (as you will in step 6 below), you can cancel units ONLY when they appear in both the numerator and the denominator. Hide Since km is in the original units, km needs to be in the denominator so that we can cancel: Set up the conversion by writing the fractions in a row with multiplication signs in between: Hide Evaluate. Do the original units, km needs to be in the denominator so that you are left with ONLY the units asked for? If not, repeat steps 3 and 4 until you are left with appropriate units: Hide Is a speed limit of about 30 mph (mi/hr) a reasonable speed limit? If you got 0.80 mph or 30,000 mph, would you recognize that it is not reasonable? You can drive about 30 mph! Density Conversions (multiple step problems) Problem 2:Geologists' observations suggest that the two most common rocks exposed at the surface of the Earth are granite (continental crust) and basalt (oceanic crust). From travel times of earthquake waves, we also know that the average density of the Earth is about 5.5 g/cm3. See if you can do some unit conversions using information given in the questions below to determine whether the whole Earth could be made of these two rock types only. As an astute observer walking around on continental crust (granite), you might decide to test the hypothesis that the Earth is made entirely of granite. You weigh a 1.00 cubic ft piece of granite on your home scale and find that it weighs 171 lb/ft3. Convert your granite's density to g/cm3. Given the information above, could the earth be made completely of granite? Hide Let's go through this using the steps from the Unit Conversions Page. Copy the number and units as a fraction: Hide Because the block of granite is 1 cubic foot, you can put 1 on the bottom of the fraction. Write out the units you want to end with: Hide Look up the conversion factors for what you have (pounds and feet(or cubic feet)) to what you want (grams and cm (or cubic cm)). Hide pounds to grams: 1 lb = 453.3924 g feet to cm: 1 foot = 30.48 cm  $\pm 30.48$  cm  $\pm 28,316$  cm3 Take note of what you have and what you cancel. Hide You want to be able to cancel lb (so that unit has to be on the bottom of the converting fraction) and ft3 (so that unit has to be on the top of the converting fraction): Once you have written all the conversion fractions so that the original value is being multiplied by them (see last step), evaluate. Do the original units cancel so that you end up with what the question is asking for? Hide Multiply the fractions (across the top and bottom): Hide Divide the resulting number to get an answer. Hide Is this a reasonable answer? Hide This isn't the answer we were looking for - 5.5 g/cm3. But it is within an order of magnitude. It is also a number that is greater than the density of water (which is 1 g/cm3) and we know that granite is denser than water! So it's a reasonable number. However, it shows that the Earth cannot be made completely of granite! Given that basalt seems to well up when ocean crust pulls apart at Mid-Ocean ridges, you might decide that maybe the entire Earth is made of basalt. On your bathroom scale, a 64 in 3 (4in x 4 in x 4in) block of basalt weighs 116 ounces. Use this information to calculate whether the average density of the Earth (5.5 g/cm3) can be explained by an Earth made completely of basalt. Hide Let's go through this using the steps from the Unit Conversions Page. Copy the number and units as a fraction: Hide Write out the units you want to end with: Hide Look up the conversion factors for what you have (pounds and feet(or cubic feet)) to what you want (grams and cm (or cubic inches: 1 in \* you have and what you want to end up with. Then, write out conversion factors from step 2 as fractions so that unit has to be on the top of the converting fraction): Once you have written all the conversion fractions so that unit has to be on the bottom of the conversion fractions so that unit has to be on the top of the conversion fraction). that the original value is being multiplied by them (see last step), evaluate. Do the original units cancel so that you end up with what the question is asking for? Hide This isn't the answer we were looking for -5.5 g/cm3. But it is within an order of magnitude. It is also a number that is greater than the density of water (which is 1 g/cm3) and we know that the Earth cannot be made completely of basalt either! So, there must be something denser down there - like the iron/nickel core! Problem 3:You are working with a map that has a fractional scale of 1:24,000 (meaning that 1 unit on the map is equal to 24,000 in). See if you can determine solutions to the following problems that geologists face when working with maps. You are hiking to a field area and measure the length of the trail as 18.5 inches. Calculate how many miles you have to hike to get to the interesting rocks/geology? Hide This is actually a two step converts on the ground. Then you can convert to units that you understand. First, think about what you have (18.5 in on the map and a scale) and what you want to know (how many miles 18.5 inches represents on the ground). It may help to think about inches on the ground on top (since that is what we want to ultimately end up with)). You have just calculated how many inches you have to cover on the trail. But, that's just seems like a lot, so let's convert those inches to miles! First, let's write out the appropriate conversion factors: 1 foot = 12 inches and 1 mile = 5280 feet. Next, we have to write these conversion factors as fractions. Remember to arrange them so that units you don't want cancel and you end up with units that you do want! Then we can cancel units. Do we end up with miles? Yes! Now we multiply across the top and bottom (note that the bottom number doesn't have any units because both are canceled by others): And when we clear fractions: We find that our hike will be 7 miles! Once you get to your field area, you are going to create a geologic map of that area. You have a mechanical pencil that has a lead that is 0.3 mm thick. The smallest feature be? Hide This, like 3.1 is actually a two step conversion problem. First you have to convert your map measurements to measurements on the ground. Then you can convert to units that you understand. First, think about what you know (0.3 mm on the ground). It may help to think about mm on the ground as different units. To begin, write the fractional scale as a fraction (with the distance on the ground on top (since that is what we want to ultimately end up with)). You have just calculated how many millimeters thick a feature can be. But, because this is the metric system, we can modify that so that you don't have to keep a lot of zeros in your head. First, let's write out the appropriate conversion factors: Next, we have to write these conversion factors as fractions. Remember to arrange them so that units you don't want cancel and you end up with units that you do want! Finally, cancel the appropriate units (mm in this case) and multiply across the top and bottom. You can map any feature wider than 7.2 m. Hide The cool thing about the metric system is that it is based in the number 10. This means that conversions within the metric system involve moving zeros around. It also means that when doing calculations, many times you can cancel out zeros. How does this work? Zeros can only be canceled if they occur on the top and bottom of a fraction. In the problem above, you can cancel two zeros on either side of the fraction: Note that the calculation then becomes 72 divided by 10. Most of us can easily divide by 10, making this calculator. Keep this in mind as you do calculations! Now you have an idea of the size of features that can be drawn on your map. Convert your answer in problem 3.2 to feet. Hide This is a simple conversion with only one step. The conversion factor listed in the table (see link above) is 1 m = 3.281 feet. First let's set up our equation with fractions: Then cancel units and multiply top and bottom You can map a feature that is about 24 feet wide. Next Steps Okay, I am ready to try the assessment. Take me there!. When you get there, remember to log in with your username and your password. Still need more practice problems for unit conversions. Several of them are listed below. 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