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Math worksheets and visual curriculum You are here: Home → Worksheets → Metric 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 Each worksheet is randomly generated and thus unique. The answer key is automatically generated and is placed on 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, simply push the button titled "Create PDF" or "Make PDF worksheet". To get the worksheet in html format, push the button "View in browser" or "Make html worksheet". This has the advantage that you can save the worksheet directly from your browser (choose File → Save) and then edit it in Word or other word processing program. Sometimes the generated worksheet is not exactly what you want. Just try again! To get a different 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 = ___ mm or 70 mm = ___ cm) View in browser Create PDF Whole meters and centimeters(3 m = ___ cm or 500 cm = ___ m) View in browser Create PDF Whole kilometers and meters(7 km = ___ m or 1,000 m = ___ km) View in browser Create PDF Kilometers, meters, and centimeters(3 km = ___ m or 100 cm = ___ m) View in browser Create PDF Meters, centimeters, and millimeters(3 m = ___ 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, kg, g, L, ml) View in browser Create PDF Grade 4 Convert between centimeters and millimeters (3 cm 4 mm = ___ mmor 72 mm = ___ cm mm) View in browser Create PDF Convert between meters and centimeters (3 m 24 cm = ___ cmor 748 cm = ___ m ___ cm) View in browser Create PDF Meters, centimeters, and millimeters(3 m 4 cm = ___ cmor 72 mm = ___ cm mm) View in browser Create PDF Convert between kilograms and grams(4 kg 900 g = ___ g or 2,490 g = ___ kg g) View in browser Create PDF Convert between liters and milliliters(6 L 250 ml = ___ ml or 2,439 ml = ___ L ml) View in browser Create PDF Mixed practice of all metric units in this section (mm, cm, m, kg, g, 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, kg, g, L, ml) View in browser Create PDF Grade 5 In grade 5, students use decimal numbers with the units of measurement. They convert for example 2.8 km into 2,800 m or 165 ml into 0.165 L. 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, centimeter, decimeter, meter, dekameter, hectometer, and kilometer. The metric system: units with prefixes The worksheet below involve converting between a range of metric units with prefixes milli-, centi-, deci-, (basic unit), deka-, hecto-, and kilo-. 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 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 measuring units. You can choose to include inches, feet, yards, miles, ounces, cups, pints, quarts, gallons, ounces, pounds, millimeters, centimeters, meters, kilometers, grams, 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 = ___ in or 5 L = ___ ml) 2 (e.g. 25 in = ___ ft ___ in) 3 (e.g. 218 in = ___ ft ___ 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 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 Round answers to 0 1 2 3 4 5 6 digits Again, the decimal digits work a little differently depending on the level of difficulty and type of conversions chosen. Some 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: Conversions in the metric system - check any 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 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 are introduced to volume. Book 4 covers a variety of topics. Students experiment with weighing objects and measuring capacity, and they also learn about temperature and time. => Learn more Welcome to our Metric Conversion Worksheets page. Here you will find our range of sheets to support your child in learning to convert between metric units. On this webpage, you will find a range of measurement worksheets to help your child learn to convert between different metric units of measurement. As well as converting between different metric units, the sheets on this page will also help children to practice multiplying by 10, 100 or 1000 in meaningful context. The sheets have been carefully graded with the easiest sheets first. The sheets have been designed for children working from 3rd grade to 5th grade. Using these metric conversion worksheets will help your child to: convert between millimeters, centimeters, meters and kilometers; convert between grams and kilograms; convert between milliliters and liters; convert a range of whole numbers and decimals Want to test yourself to see how well you have understood this skill? Try our NEW Length quiz (cm, m and km) or All Metric units quiz. 1 cm = 10 mm 1 centimeter = 10 millimeters 1 m = 100 cm 1 meter = 100 centimeters 1 km = 1000 m 1 kilometer = 1000 meters KEY FACTS - WEIGHT 1 kg = 1000 g 1 kilogram = 1000 grams KEY FACTS - VOLUME 1 L = 1000 mL 1 liter = 1000 milliliters Sheets 1 to 3 are aimed at a 3rd to 4th Grade level and use whole numbers only. Sheets 4 and 5 are aimed at a 5th grade level and involve converting metric units to and from decimals. Our quizzes have been created using Google Forms. At the end of the quiz, you will get the chance to see your results by clicking 'See Score'. This will take you to a new webpage where your results will be shown. You can print a copy of your results from this page, either as a pdf or as a paper copy. For incorrect responses, we have added some helpful learning points to explain which answer was correct and why. We do not collect any personal data from our quizzes, except in the 'First Name' and 'Group/Class' fields which are both optional and only used for teachers to identify students within their educational setting. We also collect the results from the quizzes which we use to help us to develop our resources and give us insight into future resources to create. For more information on the information we collect, please take a look at our Privacy Policy We would be grateful for any feedback on our quizzes, please let us know using our Contact Us link, or use the Facebook Comments form at the bottom of the page. Sheets 1 to 3 are aimed at a 3rd to 4th Grade level and use whole numbers only. Sheets 4 and 5 are aimed at a 5th grade level and involve converting metric units to and from decimals. Sheets 1 and 2 are aimed at a 3rd to 4th Grade level and use whole numbers only. Sheets 3 and 4 are aimed at a 5th grade level and involve converting metric units to and from decimals. We also have a selection of converting worksheets for customary units. On this page we have a selection of worksheets for converting between yards, feet and inches. There are also sheets for converting between gallons, quarts, pints and cups. Converting Customary Units Worksheets Temperature Conversion Worksheets Take a look at some more of our worksheets similar to these. Here is our selection of measurement worksheets for 3rd graders. These printable math sheets involve reading scales going up in halves, ones, fives, tens, fifties and hundreds to find the length, weight or liquid capacity. Using these sheets will help children to consolidate their counting and place value as well as learning to read and estimate using a simple scale. 3rd Grade Measurement Worksheets Here is our selection of measurement worksheets for 4th graders. These printable math sheets involve reading scales in both the standard and metric systems. The scales include finding the length, weight or liquid capacity. Using these sheets will help your child understand how to: read scales in both the standard and metric systems; read a scale going up in a range of fractions: halves, quarters and eighths; read a scale going up in tenths, fives, tens, fifties, and hundreds. Using these sheets will help children to consolidate their fractions and place value learning. 4th Grade Measurement Worksheets This section contains our 3rd grade time worksheets to help children tell the time in multiples of 5 minutes. Using the sheets in this section will help your child to: tell the time to the nearest 5 minutes; become familiar with both digital and analogue times; add and subtract time intervals; use the words 'past' and 'to' to describe the time correctly. Telling Time to 5 Minutes Worksheets Our quizzes have been created using Google Forms. At the end of the quiz, you will get the chance to see your results by clicking 'See Score'. This will take you to a new webpage where your results will be shown. You can print a copy of your results from this page, either as a pdf or as a paper copy. For incorrect responses, we have added some helpful learning points to explain which answer was correct and why. We do not collect any personal data from our quizzes, except in the 'First Name' and 'Group/Class' fields which are both optional and only used for teachers to identify students within their educational setting. We also collect the results from the quizzes which we use to help us to develop our resources and give us insight into future resources to create. For more information on the information we collect, please take a look at our Privacy Policy We would be grateful for any feedback on our quizzes, please let us know using our Contact Us link, or use the Facebook Comments form at the bottom of the page. How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! The Math Salamanders hope you enjoy using these free printable Math worksheets and all our other Math games and resources. We welcome any comments about our site or worksheets on the Facebook comments box at the bottom of every page. Page 2 Welcome to our 2 Digit Multiplication Worksheets page. We have plenty of worksheets on this page to help you practice the skills of multiplying 2-digit numbers by 1 or 2 digits. We have split the worksheets on this page into two sections: 2-digit x 1-digit multiplication (3rd grade) 2-digit x 2-digit multiplication (4th grade) Each section ends with some trickier challenge sheets for more able students. Within each section, the sheets are carefully graded with the easiest sheets first. These sheets are aimed at 3rd graders. Sheets 1 to 4 consists of 15 problems; sheets 5 and 6 consist of 20 problems. Sheets 1 and 2 involve multiplying 2-digit numbers by 2, 3, 4 or 5. Sheets 3 to 6 involve multiplying a 2-digit number by single digit numbers and finding increasing trickier products. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! These sheets are aimed at 4th graders. Sheet 1 involves 2-digit by 2-digit multiplication with smaller numbers and answers up to 1000. Sheets 2 to 4 have harder 2-digit numbers to multiply and answers that are generally larger than 1000. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! We have more 2-digit multiplication worksheets, including 2-digit x 3-digit multiplication problems on this page. More Double digit Multiplication Worksheets (harder) Take a look at some more of our worksheets similar to these. Need to create your own long or short multiplication worksheets quickly and easily? Our Multiplication worksheet generator will allow you to create your own custom worksheets to print out, complete with answers. Here you will find a range of Multiplication Worksheets to help you become more fluent and accurate with your tables. Using these sheets will help your child to: learn their multiplication tables up to 10 x 10; understand and use different models of multiplication; solve a range of Multiplication problems. All the free 3rd Grade Math Worksheets in this section are informed by the Elementary Math Benchmarks for 3rd Grade. Here you will find a range of Free Printable Multiplication Games to help kids learn their multiplication facts. Using these games will help your child to learn their multiplication facts to 5x5 or 10x10, and also to develop their memory and strategic thinking skills. Multiplication Math Games How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! The Math Salamanders hope you enjoy using these free printable Math worksheets and all our other Math games and resources. We welcome any comments about our site or worksheets on the Facebook comments box at the bottom of every page.

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