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**Next**

Name: \_\_\_\_\_

# Temperature Conversions

Use the formulas to complete the table.

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \cdot \frac{5}{9} \quad ^{\circ}\text{F} = (^{\circ}\text{C} \cdot \frac{9}{5}) + 32 \quad \text{K} = ^{\circ}\text{C} + 273.15$$

Example	$^{\circ}\text{C}$	$^{\circ}\text{F}$	K
1. Freezing point of H <sub>2</sub> O	0 $^{\circ}\text{C}$	32 $^{\circ}\text{F}$	273.15 K
2. Boiling point of H <sub>2</sub> O		212 $^{\circ}\text{F}$	
3. Liquid Nitrogen			77.15 K
4. Surface of the Sun		9,941 $^{\circ}\text{F}$	
5. Inside a hot car in the summer	59.33 $^{\circ}\text{C}$		
6. Classroom temperature			298.15 K
7. Magma		2,372 $^{\circ}\text{F}$	
8. Liquid Oxygen			90.15 K
9. Liquid Helium	-270 $^{\circ}\text{C}$		
10. Absolute Zero		-459.67 $^{\circ}\text{F}$	
11. Coldest day recorded on Earth	-89.2 $^{\circ}\text{C}$		
12. Hottest day recorded on Earth			329.85 K

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Name: **REV**

# Temperature Conversions

Use the formulas to complete the table.

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \cdot \frac{5}{9} \quad ^{\circ}\text{F} = (^{\circ}\text{C} \cdot \frac{9}{5}) + 32 \quad \text{K} = ^{\circ}\text{C} + 273.15$$

Example	$^{\circ}\text{C}$	$^{\circ}\text{F}$	K
1. Freezing point of H <sub>2</sub> O	0 $^{\circ}\text{C}$	32 $^{\circ}\text{F}$	273.15 K
2. Boiling point of H <sub>2</sub> O	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	373.15 K
3. Liquid Nitrogen	-195.79 $^{\circ}\text{C}$	-320.8 $^{\circ}\text{F}$	77.15 K
4. Surface of the Sun	5,505 $^{\circ}\text{C}$	9,941 $^{\circ}\text{F}$	5,778.15 K
5. Inside a hot car in the summer	59.33 $^{\circ}\text{C}$	138.8 $^{\circ}\text{F}$	332.48 K
6. Classroom temperature	25 $^{\circ}\text{C}$	77 $^{\circ}\text{F}$	298.15 K
7. Magma	1,300 $^{\circ}\text{C}$	2,372 $^{\circ}\text{F}$	1,573.15 K
8. Liquid Oxygen	-183 $^{\circ}\text{C}$	-297.4 $^{\circ}\text{F}$	90.15 K
9. Liquid Helium	-270 $^{\circ}\text{C}$	-454 $^{\circ}\text{F}$	3.15 K
10. Absolute Zero	-273.15 $^{\circ}\text{C}$	-459.67 $^{\circ}\text{F}$	0 K
11. Coldest day recorded on Earth	-89.2 $^{\circ}\text{C}$	-128.56 $^{\circ}\text{F}$	183.95 K
12. Hottest day recorded on Earth	56.7 $^{\circ}\text{C}$	134.06 $^{\circ}\text{F}$	329.85 K



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## Temperature Conversion Worksheet

Please SHOW YOUR WORK for all problems of this worksheet. NOT showing your work will only result in half credit! You are allowed to use a calculator but you **MUST** SHOW YOUR WORK.

$$^{\circ}\text{C} = ^{\circ}\text{F} - 32 \quad ^{\circ}\text{F} = ^{\circ}\text{C} + 32 \quad ^{\circ}\text{C} = \text{K} - 273.15$$

Convert the following to Fahrenheit.

- 1 $^{\circ}\text{C}$  \_\_\_\_\_
- 3 $^{\circ}\text{C}$  \_\_\_\_\_
- 4 $^{\circ}\text{C}$  \_\_\_\_\_
- 37 $^{\circ}\text{C}$  \_\_\_\_\_
- 9 $^{\circ}\text{C}$  \_\_\_\_\_

Convert the following to Celsius.

- 32 $^{\circ}\text{F}$  \_\_\_\_\_
- 47 $^{\circ}\text{F}$  \_\_\_\_\_
- 77 $^{\circ}\text{F}$  \_\_\_\_\_
- 86 $^{\circ}\text{F}$  \_\_\_\_\_
- 97 $^{\circ}\text{F}$  \_\_\_\_\_
- 212 $^{\circ}\text{F}$  \_\_\_\_\_



## CONVERT FAHRENHEIT TO CELSIUS 2

### Fahrenheit to Celsius

Step 1) Subtract 32

Step 2) Divide by 1.8

#### Examples

Convert 72°F into Celsius.

Step 1)  $72 - 32 = 40$

Step 2)  $40 \div 1.8 = 22.222$

Answer: 72°F = 22.2°C to 1dp

Convert 14°F into Celsius.

Step 1)  $14 - 32 = -18$

Step 2)  $-18 \div 1.8 = -10$

Answer: 14°F = -10°C

Give your answers to 1 decimal place.

- |             |             |
|-------------|-------------|
| 1) 50°F =   | 13) 20°F =  |
| 2) 36°F =   | 14) 61°F =  |
| 3) 80°F =   | 15) 0°F =   |
| 4) 45°F =   | 16) 57°F =  |
| 5) 100°F =  | 17) 203°F = |
| 6) 92°F =   | 18) 34°F =  |
| 7) 67°F =   | 19) 7°F =   |
| 8) 115°F =  | 20) 88°F =  |
| 9) 200°F =  | 21) 345°F = |
| 10) 126°F = | 22) -10°F = |
| 11) 104°F = | 23) 212°F = |
| 12) 39°F =  | 24) 405°F = |



## Metric Mania

Name \_\_\_\_\_

### Conversion Challenge

Write the correct abbreviation for each metric unit.

- |                   |                     |                     |
|-------------------|---------------------|---------------------|
| 1) Kilogram _____ | 4) Milliliter _____ | 7) Kilometer _____  |
| 2) Meter _____    | 5) Millimeter _____ | 8) Centimeter _____ |
| 3) Gram _____     | 6) Liter _____      | 9) Milligram _____  |

Try these conversions, using the ladder method.

- |                      |                      |                       |
|----------------------|----------------------|-----------------------|
| 1) 2000 mg = _____ g | 6) 5 L = _____ mL    | 11) 16 cm = _____ mm  |
| 2) 104 km = _____ m  | 7) 198 g = _____ kg  | 12) 2500 m = _____ km |
| 3) 480 cm = _____ m  | 8) 75 mL = _____ L   | 13) 65 g = _____ mg   |
| 4) 5.6 kg = _____ g  | 9) 50 cm = _____ m   | 14) 6.3 cm = _____ mm |
| 5) 8 mm = _____ cm   | 10) 5.6 m = _____ cm | 15) 120 mg = _____ g  |

Compare using <, >, or =.

- |  |                                      |  |
|--|--------------------------------------|--|
| 16) 63 cm <input type="radio"/> 6 m      | 17) 5 g <input type="radio"/> 508 mg | 18) 1,500 mL <input type="radio"/> 1.5 L |
| 19) 536 cm <input type="radio"/> 53.6 dm | 20) 43 mg <input type="radio"/> 5 g  | 21) 3.6 m <input type="radio"/> 36 cm    |

T. Trimpe 2000 <http://sciencspot.net/>

The following web information page is all about converting temperatures from celsius to fahrenheit. Welcome to our Temperature Conversion Worksheets page. Using this zone is a great way to test yourself on your facts and see how many you can do in a minute, or see how quickly you can complete the jigsaw. Here you will find a range of Free Printable Multiplication Games to help kids learn their multiplication facts. On this webpage there is a selection of printable 24 hour (military time) conversion worksheets which will help you learn to convert from 24 hour clock to standard 12 hour time, and from standard time to 24 hour time. 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. 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. These sheets are aimed at 3rd graders. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! These sheets are aimed at 4th graders. We welcome any comments about our site or worksheets on the Facebook comments box at the bottom of every page. Sheets 1 and 2 involve multiplying 2-digit numbers by 2, 3, 4 or 5. Sheets 2 to 4 have harder 2-digit numbers to multiply and answers that are generally larger than 1000. There are also sheets for converting between kilograms and grams, and also liters and milliliters. 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. Times Tables Practice Zone How to Print or Save these sheets Need help with printing or saving? More Double digit Multiplication Worksheets (harder) Take a look at some more of our worksheets similar to these. Multiplication Math Games How to Print or Save these sheets Need help with printing or saving? Here you will find a range of Multiplication Worksheets to help you become more fluent and accurate with your tables. Metric Conversion Worksheets Converting Customary Units Worksheets Take a look at some more of our worksheets similar to these. Alternatively, if you were using a calculator, you could do the conversion in just two steps: Step 1) Multiply by 1.8 Step 2) Add 32. 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. Here is our selection of measurement worksheets. 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. An answer sheet is provided with each sheet and the sheets are graded with the easiest sheets coming with supporting information. Within each section, the sheets are carefully graded with the easiest sheets first. Step 3) Divide by 9. To convert from Fahrenheit(°F) to Celsius(°C) : Step 1) Subtract 32 Step 2) Multiply by 5. Celsius to Fahrenheit Conversion Chart Celsius to Fahrenheit Calculator We have split the sheets into 3 sections: Converting Fahrenheit to Celsius Converting Celsius to Fahrenheit Both conversions We also have a selection of converting worksheets for metric units. FORMULA F = 9/5 C + 32 Where C is for Celsius and F is for Fahrenheit. On this page we have a selection of worksheets for converting between kilometers, meters, centimeters and millimeters. Our Multiplication worksheet generator will allow you to create your own custom worksheets to print out, complete with answers. Alternatively, if you were using a calculator, you could do the conversion in just two steps: Step 1) Subtract 32 Step 2) Divide by 1.8. FORMULA C = 5/9 (F - 32) Where C is for Celsius and F is for Fahrenheit. Using these converting customary units sheets will help your child to: convert between temperatures in Celsius and Fahrenheit; use a formula to convert from one unit to another. Sheets 1 to 4 consists of 15 problems; sheets 5 and 6 consist of 20 problems. 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? 24 Hour Clock Conversion Worksheets Here is our online learning math practice zone for times tables and multiplication facts. Sheet 1 involves 2-digit by 2-digit multiplication with smaller numbers and answers up to 1000. Sheets 3 to 6 involve multiplying a 2-digit number by single digit numbers and finding increasing trickier products. There is also a range of support sheets available to help children with their conversions. These sheets involve reading scales in both the standard and metric systems. Step 3) Add 32. Here you will find our range of sheets to support your child in learning to convert between temperatures in Celsius and Fahrenheit. All the free 3rd Grade Math Worksheets in this section are informed by the Elementary Math Benchmarks for 3rd Grade. Need to create your own long or short multiplication worksheets quickly and easily? 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 different sizes. We have plenty of worksheets on this page to help you practice the skills of multiplying 2-digit numbers by 1 or 2 digits. To convert from Celsius(°C) to Fahrenheit(°F) : Step 1) Multiply by 9 Step 2) Divide by 5. On this webpage, you will find a range of measurement worksheets to help your child learn to convert between temperatures in Celsius(°C) and Fahrenheit (°F). The sheets have been carefully graded with the easiest sheets first. Page 2 Welcome to our 2 Digit Multiplication Worksheets page.

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