```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta http-equiv="content-type" content="text/html; charset=UTF-8" />
    <title>Unit Converter</title>
    <meta name="description"</pre>
        content="Quick, free, online unit converter that converts common units of
measurement, along with 77 other converters covering an assortment of units. The
site also includes a predictive tool that suggests possible conversions based on
input, allowing for easier navigation while learning more about various unit
systems." />
    <link rel="stylesheet" href="//d15gdne58bo42a.cloudfront.net/style-n.css" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="google-site-verification"</pre>
content="83ftfjb0tb6LAoLXRzmOHOHKHx1S4fSEuHfCnKQag0k" />
    <link rel="apple-touch-icon" sizes="180x180"</pre>
href="//d15gdne58bo42a.cloudfront.net/apple-touch-icon.png">
    <link rel="icon" type="image/png" sizes="32x32"</pre>
href="//d15gdne58bo42a.cloudfront.net/icon-32x32.png">
    <link rel="icon" type="image/png" sizes="16x16"</pre>
href="//d15gdne58bo42a.cloudfront.net/icon-16x16.png">
    <link rel="manifest" href="/manifest.json">
</head>
<body>
    <div id="headerout">
        <div id="header">
            <div id="logo"><a href="/"><img</pre>
src="//d15gdne58bo42a.cloudfront.net/images/logo.svg" width="288"
                        height="28" alt="UnitConverters.net"></a></div>
        </div>
    </div>
    <div id="clear"></div>
    <div id="contentout">
        <div id="content">
            <img src="//d15gdne58bo42a.cloudfront.net/images/calculator.svg"</pre>
width="22" height="31" align="right"
                border="0" onClick="quickCaclShow('');" alt="calculator">
            <h3>Unit Converter Express Version</h3>
            <div id="unquickcalc" style="display:none;"></div>
            <div id="menu">
                <l
                    id="menuon"><a</li>
href="javascript:popMenu("Length");showSel(lA);">Length</a>
                    <a
href="javascript:popMenu("Temperature");showSel(tA);">Temperature</a>
                    <a
href="javascript:popMenu("Area");showSel(aA);">Area</a>
```

```
<a
href="javascript:popMenu("Volume");showSel(vA);">Volume</a>
              <a
href="javascript:popMenu("Weight");showSel(wA);">Weight</a>
              <a
href="javascript:popMenu("Time");showSel(mA);">Time</a>
            </div>
         <script>
           var isMobile = false;
         </script>
         <div id="qcvt">
            style="padding-top:5px;">
              <form name="calForm">
                 >
                    <label
for="fromVal"><b>From:</b></label>
                    <label
for="toVal"><b>To:</b></label>
                 >
                    <input type="text" name="fromVal" id="fromVal"
onKeyUp="calcul();" class="ucinput"
                          style="width:262px;" autofocus>
                    <input type="text" id="toVal" name="toVal"
style="width:262px;background-color:#eeeeee;"
                          <select name="calFrom"</pre>
id="calFrom" onChange="calcul();"
                          size="11" class="ucselect"
style="width:280px;"></select>
                    <select name="calTo"</pre>
id="calTo" size="11" onChange="calcul();"
                          class="ucselect"
style="width:280px;"></select>
                 </form>
            <br>
            <div id="calResults"></div>
         </div>
         <br>
         <div id="findutoc">
            <h3>Find the Units to Convert</h3>
```

```
<form>
                     >
                        <label for="fromunit"><b>From
Unit:</b></label>
                        <label for="tounit"><b>To
Unit:</b></label>
                     <input type="text" name="fromunit" id="fromunit"
onKeyUp="findUnit();" class="ucinput"
                               style="width:261px;" placeholder="e.g.
kilogram">
                        <input type="text" name="tounit" id="tounit"
onKeyUp="findUnit();" style="width:261px;"
                               class="ucinput" placeholder="e.g. lbs">
                     </form>
              <div id="futcResult"></div>
          </div>
          <br>
          <h3>Common Conversions</h3>
          <table width="100%" border="0" cellspacing="0" cellpadding="0"
id="homelist">
              <l
                        <a href="/length/cm-to-inches.htm">cm to</a>
inches</a>
                        <a href="/weight-and-mass/kg-to-lbs.htm">kg to</a>
lbs</a>
                        <a
href="/temperature/celsius-to-fahrenheit.htm">Celsius to Fahrenheit</a>
                        <a href="/length/mm-to-inches.htm">mm to</a>
inches</a>
                        <a href="/length/meters-to-feet.htm">meters to</a>
feet</a>
                        <a href="/length/km-to-miles.htm">km to</a>
miles</a>
                        <a href="/length/cm-to-feet.htm">cm to</a>
feet</a>
                        <a
href="/weight-and-mass/grams-to-ounces.htm">grams to ounces</a>
                        <a href="/length/inches-to-feet.htm">inches to</a>
feet</a>
                        <a href="/volume/liters-to-gallons.htm">liters to</a>
gallons</a>
                        <a
href="/weight-and-mass/pounds-to-ounces.htm">pounds to ounces</a>
                        <a href="/speed/mph-to-kph.htm">mph to kph</a>
```

```
<a href="/area/acres-to-square-feet.htm">acres to</a>
square feet</a>
                         <a href="/angle/radians-to-degrees.htm">radians to</a>
degrees</a>
                         <a href="/power/hp-to-kw.htm">hp to kw</a>
                         <a href="/length/meters-to-yards.htm">meters to</a>
yards</a>
                         <a href="/volume/ml-to-cups.htm">mL to</a>
cups</a>
                     <l
                         <a href="/length/inches-to-cm.htm">inches to</a>
cm</a>
                         <a href="/weight-and-mass/lbs-to-kg.htm">lbs to</a>
kg</a>
                         <a
href="/temperature/fahrenheit-to-celsius.htm">Fahrenheit to Celsius</a>
                         <a href="/length/inches-to-mm.htm">inches to</a>
mm</a>
                         <a href="/length/feet-to-meters.htm">Feet to</a>
Meters</a>
                         <a href="/length/miles-to-km.htm">miles to</a>
km</a>
                         <a href="/length/feet-to-cm.htm">feet to</a>
cm</a>
                         <a
href="/weight-and-mass/ounces-to-grams.htm">ounces to grams</a>
                         <a href="/length/feet-to-inches.htm">feet to</a>
inches</a>
                         <a href="/volume/gallons-to-liters.htm">gallons to</a>
liters</a>
                         <a
href="/weight-and-mass/ounces-to-pounds.htm">ounces to pounds</a>
                         <a href="/speed/kph-to-mph.htm">kph to mph</a>
                         <a href="/area/square-feet-to-acres.htm">square</a>
feet to acres</a>
                         <a href="/angle/degrees-to-radians.htm">degrees to</a>
radians</a>
                         <a href="/power/kw-to-hp.htm">kw to hp</a>
                         <a href="/length/yards-to-meters.htm">yards to</a>
meters</a>
                         <a href="/volume/cups-to-ml.htm">cups to</a>
mL</a>
                     <br>
          <h3>Unit Converters &mdash; Full Versions</h3>
```

```
<table width="100%" border="0" cellspacing="0" cellpadding="0"
id="homelist">
             <h4>Common Converters</h4>
                 <l
                        <a href="/length-converter.html">Length</a>
Converter</a>
                        <a href="/weight-and-mass-converter.html">Weight</a>
and Mass Converter</a>
                        <a href="/volume-converter.html">Volume</a>
Converter</a>
                        <a href="/temperature-converter.html">Temperature</a>
Converter</a>
                        <a href="/area-converter.html">Area</a>
Converter</a>
                        <a href="/pressure-converter.html">Pressure</a>
Converter</a>
                        <a href="/energy-converter.html">Energy</a>
Converter</a>
                        <a href="/volume-dry-converter.html">Volume - Dry</a>
Converter</a>
                        <a href="/currenc
                           y-converter.html">Currency Converter</a>
                    <a href="/case-converter.html">Case</a>
Converter</a>
                        <a href="/power-converter.html">Power</a>
Converter</a>
                        <a href="/force-converter.html">Force
Converter</a>
                        <a href="/time-converter.html">Time</a>
Converter</a>
                        <a href="/speed-converter.html">Speed</a>
Converter</a>
                        <a href="/angle-converter.html">Angle</a>
Converter</a>
                        <a href="/fuel-consumption-converter.html">Fuel</a>
Consumption Converter</a>
                        <a href="/numbers-converter.html">Numbers
Converter</a>
                        <a href="/data-storage-converter.html">Data Storage</a>
Converter</a>
```

```
<h4>Engineering Converters</h4>
                     <l
                         <a href="/velocity-angular-converter.html">Velocity</a>
- Angular Converter</a>
                         <a href="/acceleration-converter.html">Acceleration</a>
Converter</a>
                         <a
href="/acceleration-angular-converter.html">Acceleration - Angular
Converter</a>
                         <a href="/density-converter.html">Density</a>
Converter</a>
                         <a href="/specific-volume-converter.html">Specific</a>
Volume Converter</a>
                         <a href="/moment-of-inertia-converter.html">Moment</a>
of Inertia Converter</a>
                         <a href="/moment-of-force-converter.html">Moment of</a>
Force Converter</a>
                         <a href="/torque-converter.html">Torque</a>
Converter</a>
                     <h4>Heat Converters</h4>
                     <l
                         <a href="/fuel-efficiency-mass-converter.html">Fuel</a>
Efficiency - Mass Converter</a>
                         <a
href="/fuel-efficiency-volume-converter.html">Fuel Efficiency - Volume
Converter</a>
                         <a
href="/temperature-interval-converter.html">Temperature Interval Converter</a>
                         <a href="/thermal-expansion-converter.html">Thermal</a>
Expansion Converter</a>
                         <a
href="/thermal-resistance-converter.html">Thermal Resistance Converter</a>
                         <a
href="/thermal-conductivity-converter.html">Thermal Conductivity Converter</a>
                         <a
href="/specific-heat-capacity-converter.html">Specific Heat Capacity Converter</a>
                         <a href="/heat-density-converter.html">Heat Density</a>
Converter</a>
                         <a href="/heat-flux-density-converter.html">Heat</a>
Flux Density Converter</a>
                         <a
href="/heat-transfer-coefficient-converter.html">Heat Transfer Coefficient
```

```
Converter</a>
                     <h4>Fluids converters</h4>
                     <l
                         <a href="/flow-converter.html">Flow</a>
Converter</a>
                         <a href="/flow-mass-converter.html">Flow - Mass
Converter</a>
                         <a href="/flow-molar-converter.html">Flow - Molar</a>
Converter</a>
                         <a href="/mass-flux-density-converter.html">Mass</a>
Flux Density Converter</a>
                         <a
href="/concentration-molar-converter.html">Concentration - Molar Converter</a>
                         <a</li>
href="/concentration-solution-converter.html">Concentration - Solution
Converter</a>
                         <a
href="/viscosity-dynamic-converter.html">Viscosity - Dynamic Converter</a>
                         <a
href="/viscosity-kinematic-converter.html">Viscosity - Kinematic Converter</a>
                         <a href="/surface-tension-converter.html">Surface</a>
Tension Converter</a>
                         <a href="/permeability-converter.html">Permeability</a>
Converter</a>
                     <h4>Light converters</h4>
                     <l
                         <a href="/luminance-converter.html">Luminance</a>
Converter</a>
                         <a
href="/luminous-intensity-converter.html">Luminous Intensity Converter</a>
                         <a href="/illumination-converter.html">Illumination</a>
Converter</a>
                         <a
href="/digital-image-resolution-converter.html">Digital Image Resolution
                                Converter</a>
                         <a
href="/frequency-wavelength-converter.html">Frequency Wavelength Converter</a>
                     <h4>Electricity Converters</h4>
                     <l
                         <a href="/charge-converter.html">Charge</a>
Converter</a>
                         <a
href="/linear-charge-density-converter.html">Linear Charge Density
Converter</a>
```

```
<a
href="/surface-charge-density-converter.html">Surface Charge Density Converter</a>
                         <a
href="/volume-charge-density-converter.html">Volume Charge Density
Converter</a>
                         <a href="/current-converter.html">Current</a>
Converter</a>
                         <a</li>
href="/linear-current-density-converter.html">Linear Current Density Converter</a>
                         <a
href="/surface-current-density-converter.html">Surface Current Density
Converter</a>
                         <a
href="/electric-field-strength-converter.html">Electric Field Strength
Converter</a>
                         <a
href="/electric-potential-converter.html">Electric Potential Converter</a>
                         <a
href="/electric-resistance-converter.html">Electric Resistance Converter</a>
                         <a
href="/electric-resistivity-converter.html">Electric Resistivity Converter</a>
                         <a
href="/electric-conductance-converter.html">Electric Conductance Converter</a>
                         <a
href="/electric-conductivity-converter.html">Electric Conductivity
Converter</a>
                         <a
href="/electrostatic-capacitance-converter.html">Electrostatic Capacitance</a>
                         <a href="/indusctance-converter.html">Inductance</a>
Converter</a>
                      <h4>Magnetism converters</h4>
                      <l
                         <a
href="/magnetomotive-force-converter.html">Magnetomotive Force Converter</a>
                         <a
href="/magnetic-field-strength-converter.html">Magnetic Field Strength
Converter</a>
                         <a href="/magnetic-flux-converter.html">Magnetic</a>
Flux Converter</a>
                         <a
href="/magnetic-flux-density-converter.html">Magnetic Flux Density
Converter</a>
                      <h4>Radiology converters</h4>
```

```
<l
                          <a href="/radiation-converter.html">Radiation</a>
Converter</a>
                          <a
href="/radiation-activity-converter.html">Radiation-Activity Converter</a>
                          <a
href="/radiation-exposure-converter.html">Radiation-Exposure Converter</a>
                          <a</li>
href="/radiation-absorbed-dose-converter.html">Radiation-Absorbed Dose
Converter</a>
                          <h4>Other Converters</h4>
                      <l
                          <a href="/prefixes-converter.html">Prefixes</a>
Converter</a>
                          <a href="/data-transfer-converter.html">Data</a>
Transfer Converter</a>
                          <a href="/sound-converter.html">Sound</a>
Converter</a>
                          <a href="/typography-converter.html">Typography</a>
Converter</a>
                          <a href="/volume-lumber-converter.html">Volume -
Lumber Converter</a>
                      A unit is a measurement of a quantity that is defined or adopted by
tradition or law. Other quantities
               can be expressed as a multiple of the unit.
           In human history, various unit systems were developed and used in
different regions and cultures.
               Currently, the global standard of measurement is the International
System of Units (SI), which is a
               modern form of the metric system. Although SI is intended for
global use, it has not been fully adopted,
               and some other systems of measurement are still used in parts of
the world.
           The intent of this site is to provide a convenient means to convert
between the various units of
               measurement within different systems, as well as to provide a basic
understanding of the systems
               currently in use, and how they interact. Refer to the <a
href="/common-unit-systems.php">Common Unit
                  Systems</a> page for further information.
```

```
<script src="//d15gdne58bo42a.cloudfront.net/js/homeunit.js"</pre>
async></script>
            <script src="//d15gdne58bo42a.cloudfront.net/js/common.js"</pre>
async></script>
        </div>
        <div id="right">
            <hr>>
            <div id="othercalc"></div>
            <script>var navSectionName = "";</script>
        </div>
    </div>
    <div id="clear"></div>
    <div id="footer">
        <div id="footerin">
            <div id="footernav"><a href="/about-us.php">about us</a> | <a</pre>
href="/about-us.php#terms">terms of use</a> |
                 <a href="/about-us.php#privacy">privacy policy</a> | <a</pre>
href="/sitemap.php">sitemap</a> &nbsp; &copy;
                2008 - 2023 <a
href="https://www.unitconverters.net">unitconverters.net</a></div>
        </div>
    </div>
    <!-- Global site tag (gtag.js) - Google Analytics -->
    <script async
src="https://www.googletagmanager.com/gtag/js?id=UA-3068863-26"></script>
    <script>
        window.dataLayer = window.dataLayer || [];
        function gtag() { dataLayer.push(arguments); }
        gtag('js', new Date());
        gtag('config', 'UA-3068863-26');
    </script>
</body>
</html>
```