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# Title:

How to Convert Millimeters (mm) to Inches (in)

Word Count:

223

### Summary:

To convert a unit from millimeters to inches, multiple steps are necessary as the two units are in a different system of units. Millimeters is in a number form,  $1 \times 10-3$  meters (the standard unit of length), and is one of the metric unit systems and a part of the International System of Units (SI). On the other hand, an inch is a unit of length in a few systems such as in the English units, Imperial units, and the United States customary units. It is basically 1/36th of a yard or 1/12th of a foot.

#### Keywords:

Millimeters, Inches, Convert

# Article Body:

To convert a unit from millimeters to inches, multiple steps are necessary as the two units are in a different system of units. Millimeters is in a number form,  $1 \times 10-3$  meters (the standard unit of length), and is one of the metric unit systems and a part of the International System of Units (SI). On the other hand, an inch is a unit of length in a few systems such as in the English units, Imperial units, and the United States customary units. It is basically 1/36th of a yard or 1/12th of a foot.

#### Direct Rates

1 millimeters = 0.0393700787 inch

1 inch = 25.4 millimeters

Using the Factor-Label Method of Conversion

So, to convert millimeters to inches, method known as the factor-label method of conversion must be done.

- 1. Firstly, we know that  $25.4 \times 10-3$  meters equals 1 inch. But before that, meters must be converted to millimeters. 1 meter = 1,000 millimeters
- 2. Considering how 25.4 x 10-3 meters equals an inch, and 1,000 millimeters equals a meter, we can find the relationship between an inch and a millimeter by finding the product of:  $25.4 \times 10-3 \times 1,000$

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3. This equals to 25.4 millimeters equaling an inch. This basically means that 1 millimeter equals 1/25.4 of an inch.

Work Shown

 $1 \text{ mm} / 1 \times 10-3 \text{ m} = 1 \text{ m} / 100 \text{ cm} = 1 \text{ cm} / (1/2.54) \text{ in.}$ 

Crossing out the meters (m) and centimeters (cm) gives us a relationship between the millimeter (mm) and the inch (in.).