



Math worksheet on 'Metric Units - Table Missing Factor (Common) (Level 1)'. Part of a broader unit on 'Measurement - Units Intro - Metric'

Learn online: [app.mobius.academy/math/units/measurement\\_unit\\_intro\\_metric/](http://app.mobius.academy/math/units/measurement_unit_intro_metric/)

**1**

What is the multiplication factor for 'milli'?

|          |       |          |           |  |          |   |          |     |          |       |          |      |          |    |          |     |
|----------|-------|----------|-----------|--|----------|---|----------|-----|----------|-------|----------|------|----------|----|----------|-----|
| kilo     | k     | 1000     | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>1</td> <td><b>b</b></td> <td>0.1</td> </tr> <tr> <td><b>c</b></td> <td>0.001</td> <td><b>d</b></td> <td>0.01</td> </tr> <tr> <td><b>e</b></td> <td>10</td> <td><b>f</b></td> <td>100</td> </tr> </table> | <b>a</b> | 1 | <b>b</b> | 0.1 | <b>c</b> | 0.001 | <b>d</b> | 0.01 | <b>e</b> | 10 | <b>f</b> | 100 |
| <b>a</b> | 1     | <b>b</b> | 0.1       |  |          |   |          |     |          |       |          |      |          |    |          |     |
| <b>c</b> | 0.001 | <b>d</b> | 0.01      |  |          |   |          |     |          |       |          |      |          |    |          |     |
| <b>e</b> | 10    | <b>f</b> | 100       |  |          |   |          |     |          |       |          |      |          |    |          |     |
| hecto    | h     | 100      | $10^2$    |  |          |   |          |     |          |       |          |      |          |    |          |     |
| deca     | da    | 10       | $10^1$    |  |          |   |          |     |          |       |          |      |          |    |          |     |
| (base)   |       | 1        | $10^0$    |  |          |   |          |     |          |       |          |      |          |    |          |     |
| deci     | d     | 0.1      | $10^{-1}$ |  |          |   |          |     |          |       |          |      |          |    |          |     |
| centi    | c     | 0.01     | $10^{-2}$ |  |          |   |          |     |          |       |          |      |          |    |          |     |
| milli    | m     | ?        | $10^{-3}$ |  |          |   |          |     |          |       |          |      |          |    |          |     |

**2**

What is the multiplication factor for 'centi'?

|          |       |          |           |  |          |     |          |   |          |       |          |      |          |    |          |     |
|----------|-------|----------|-----------|--|----------|-----|----------|---|----------|-------|----------|------|----------|----|----------|-----|
| kilo     | k     | 1000     | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>100</td> <td><b>b</b></td> <td>1</td> </tr> <tr> <td><b>c</b></td> <td>0.001</td> <td><b>d</b></td> <td>0.01</td> </tr> <tr> <td><b>e</b></td> <td>10</td> <td><b>f</b></td> <td>0.1</td> </tr> </table> | <b>a</b> | 100 | <b>b</b> | 1 | <b>c</b> | 0.001 | <b>d</b> | 0.01 | <b>e</b> | 10 | <b>f</b> | 0.1 |
| <b>a</b> | 100   | <b>b</b> | 1         |  |          |     |          |   |          |       |          |      |          |    |          |     |
| <b>c</b> | 0.001 | <b>d</b> | 0.01      |  |          |     |          |   |          |       |          |      |          |    |          |     |
| <b>e</b> | 10    | <b>f</b> | 0.1       |  |          |     |          |   |          |       |          |      |          |    |          |     |
| hecto    | h     | 100      | $10^2$    |  |          |     |          |   |          |       |          |      |          |    |          |     |
| deca     | da    | 10       | $10^1$    |  |          |     |          |   |          |       |          |      |          |    |          |     |
| (base)   |       | 1        | $10^0$    |  |          |     |          |   |          |       |          |      |          |    |          |     |
| deci     | d     | 0.1      | $10^{-1}$ |  |          |     |          |   |          |       |          |      |          |    |          |     |
| centi    | c     | ?        | $10^{-2}$ |  |          |     |          |   |          |       |          |      |          |    |          |     |
| milli    | m     | 0.001    | $10^{-3}$ |  |          |     |          |   |          |       |          |      |          |    |          |     |

**3**

What is the multiplication factor for 'deca'?

|          |       |          |           |  |          |       |          |   |          |    |          |     |          |      |          |     |
|----------|-------|----------|-----------|--|----------|-------|----------|---|----------|----|----------|-----|----------|------|----------|-----|
| kilo     | k     | 1000     | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>0.001</td> <td><b>b</b></td> <td>1</td> </tr> <tr> <td><b>c</b></td> <td>10</td> <td><b>d</b></td> <td>100</td> </tr> <tr> <td><b>e</b></td> <td>0.01</td> <td><b>f</b></td> <td>0.1</td> </tr> </table> | <b>a</b> | 0.001 | <b>b</b> | 1 | <b>c</b> | 10 | <b>d</b> | 100 | <b>e</b> | 0.01 | <b>f</b> | 0.1 |
| <b>a</b> | 0.001 | <b>b</b> | 1         |  |          |       |          |   |          |    |          |     |          |      |          |     |
| <b>c</b> | 10    | <b>d</b> | 100       |  |          |       |          |   |          |    |          |     |          |      |          |     |
| <b>e</b> | 0.01  | <b>f</b> | 0.1       |  |          |       |          |   |          |    |          |     |          |      |          |     |
| hecto    | h     | 100      | $10^2$    |  |          |       |          |   |          |    |          |     |          |      |          |     |
| deca     | da    | ?        | $10^1$    |  |          |       |          |   |          |    |          |     |          |      |          |     |
| (base)   |       | 1        | $10^0$    |  |          |       |          |   |          |    |          |     |          |      |          |     |
| deci     | d     | 0.1      | $10^{-1}$ |  |          |       |          |   |          |    |          |     |          |      |          |     |
| centi    | c     | 0.01     | $10^{-2}$ |  |          |       |          |   |          |    |          |     |          |      |          |     |
| milli    | m     | 0.001    | $10^{-3}$ |  |          |       |          |   |          |    |          |     |          |      |          |     |

**4**

What is the multiplication factor for 'hecto'?

|          |      |          |           |  |          |     |          |       |          |      |          |     |          |    |          |   |
|----------|------|----------|-----------|--|----------|-----|----------|-------|----------|------|----------|-----|----------|----|----------|---|
| kilo     | k    | 1000     | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>100</td> <td><b>b</b></td> <td>0.001</td> </tr> <tr> <td><b>c</b></td> <td>0.01</td> <td><b>d</b></td> <td>0.1</td> </tr> <tr> <td><b>e</b></td> <td>10</td> <td><b>f</b></td> <td>1</td> </tr> </table> | <b>a</b> | 100 | <b>b</b> | 0.001 | <b>c</b> | 0.01 | <b>d</b> | 0.1 | <b>e</b> | 10 | <b>f</b> | 1 |
| <b>a</b> | 100  | <b>b</b> | 0.001     |  |          |     |          |       |          |      |          |     |          |    |          |   |
| <b>c</b> | 0.01 | <b>d</b> | 0.1       |  |          |     |          |       |          |      |          |     |          |    |          |   |
| <b>e</b> | 10   | <b>f</b> | 1         |  |          |     |          |       |          |      |          |     |          |    |          |   |
| hecto    | h    | ?        | $10^2$    |  |          |     |          |       |          |      |          |     |          |    |          |   |
| deca     | da   | 10       | $10^1$    |  |          |     |          |       |          |      |          |     |          |    |          |   |
| (base)   |      | 1        | $10^0$    |  |          |     |          |       |          |      |          |     |          |    |          |   |
| deci     | d    | 0.1      | $10^{-1}$ |  |          |     |          |       |          |      |          |     |          |    |          |   |
| centi    | c    | 0.01     | $10^{-2}$ |  |          |     |          |       |          |      |          |     |          |    |          |   |
| milli    | m    | 0.001    | $10^{-3}$ |  |          |     |          |       |          |      |          |     |          |    |          |   |

**5**

What is the multiplication factor for 'kilo'?

|          |      |          |           |  |          |     |          |   |          |    |          |       |          |      |          |       |
|----------|------|----------|-----------|--|----------|-----|----------|---|----------|----|----------|-------|----------|------|----------|-------|
| kilo     | k    | ?        | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>0.1</td> <td><b>b</b></td> <td>1</td> </tr> <tr> <td><b>c</b></td> <td>10</td> <td><b>d</b></td> <td>1,000</td> </tr> <tr> <td><b>e</b></td> <td>0.01</td> <td><b>f</b></td> <td>0.001</td> </tr> </table> | <b>a</b> | 0.1 | <b>b</b> | 1 | <b>c</b> | 10 | <b>d</b> | 1,000 | <b>e</b> | 0.01 | <b>f</b> | 0.001 |
| <b>a</b> | 0.1  | <b>b</b> | 1         |  |          |     |          |   |          |    |          |       |          |      |          |       |
| <b>c</b> | 10   | <b>d</b> | 1,000     |  |          |     |          |   |          |    |          |       |          |      |          |       |
| <b>e</b> | 0.01 | <b>f</b> | 0.001     |  |          |     |          |   |          |    |          |       |          |      |          |       |
| hecto    | h    | 100      | $10^2$    |  |          |     |          |   |          |    |          |       |          |      |          |       |
| deca     | da   | 10       | $10^1$    |  |          |     |          |   |          |    |          |       |          |      |          |       |
| (base)   |      | 1        | $10^0$    |  |          |     |          |   |          |    |          |       |          |      |          |       |
| deci     | d    | 0.1      | $10^{-1}$ |  |          |     |          |   |          |    |          |       |          |      |          |       |
| centi    | c    | 0.01     | $10^{-2}$ |  |          |     |          |   |          |    |          |       |          |      |          |       |
| milli    | m    | 0.001    | $10^{-3}$ |  |          |     |          |   |          |    |          |       |          |      |          |       |

**6**

What is the multiplication factor for 'deci'?

|          |       |          |           |  |          |   |          |     |          |      |          |    |          |       |          |     |
|----------|-------|----------|-----------|--|----------|---|----------|-----|----------|------|----------|----|----------|-------|----------|-----|
| kilo     | k     | 1000     | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>1</td> <td><b>b</b></td> <td>100</td> </tr> <tr> <td><b>c</b></td> <td>0.01</td> <td><b>d</b></td> <td>10</td> </tr> <tr> <td><b>e</b></td> <td>0.001</td> <td><b>f</b></td> <td>0.1</td> </tr> </table> | <b>a</b> | 1 | <b>b</b> | 100 | <b>c</b> | 0.01 | <b>d</b> | 10 | <b>e</b> | 0.001 | <b>f</b> | 0.1 |
| <b>a</b> | 1     | <b>b</b> | 100       |  |          |   |          |     |          |      |          |    |          |       |          |     |
| <b>c</b> | 0.01  | <b>d</b> | 10        |  |          |   |          |     |          |      |          |    |          |       |          |     |
| <b>e</b> | 0.001 | <b>f</b> | 0.1       |  |          |   |          |     |          |      |          |    |          |       |          |     |
| hecto    | h     | 100      | $10^2$    |  |          |   |          |     |          |      |          |    |          |       |          |     |
| deca     | da    | 10       | $10^1$    |  |          |   |          |     |          |      |          |    |          |       |          |     |
| (base)   |       | 1        | $10^0$    |  |          |   |          |     |          |      |          |    |          |       |          |     |
| deci     | d     | ?        | $10^{-1}$ |  |          |   |          |     |          |      |          |    |          |       |          |     |
| centi    | c     | 0.01     | $10^{-2}$ |  |          |   |          |     |          |      |          |    |          |       |          |     |
| milli    | m     | 0.001    | $10^{-3}$ |  |          |   |          |     |          |      |          |    |          |       |          |     |

**7**

What is the multiplication factor for '(base)'?

|          |     |          |           |  |          |     |          |    |          |   |          |       |          |     |          |      |
|----------|-----|----------|-----------|--|----------|-----|----------|----|----------|---|----------|-------|----------|-----|----------|------|
| kilo     | k   | 1000     | $10^3$    | <table border="1"> <tr> <td><b>a</b></td> <td>100</td> <td><b>b</b></td> <td>10</td> </tr> <tr> <td><b>c</b></td> <td>1</td> <td><b>d</b></td> <td>0.001</td> </tr> <tr> <td><b>e</b></td> <td>0.1</td> <td><b>f</b></td> <td>0.01</td> </tr> </table> | <b>a</b> | 100 | <b>b</b> | 10 | <b>c</b> | 1 | <b>d</b> | 0.001 | <b>e</b> | 0.1 | <b>f</b> | 0.01 |
| <b>a</b> | 100 | <b>b</b> | 10        |  |          |     |          |    |          |   |          |       |          |     |          |      |
| <b>c</b> | 1   | <b>d</b> | 0.001     |  |          |     |          |    |          |   |          |       |          |     |          |      |
| <b>e</b> | 0.1 | <b>f</b> | 0.01      |  |          |     |          |    |          |   |          |       |          |     |          |      |
| hecto    | h   | 100      | $10^2$    |  |          |     |          |    |          |   |          |       |          |     |          |      |
| deca     | da  | 10       | $10^1$    |  |          |     |          |    |          |   |          |       |          |     |          |      |
| (base)   |     | ?        | $10^0$    |  |          |     |          |    |          |   |          |       |          |     |          |      |
| deci     | d   | 0.1      | $10^{-1}$ |  |          |     |          |    |          |   |          |       |          |     |          |      |
| centi    | c   | 0.01     | $10^{-2}$ |  |          |     |          |    |          |   |          |       |          |     |          |      |
| milli    | m   | 0.001    | $10^{-3}$ |  |          |     |          |    |          |   |          |       |          |     |          |      |