**Notes: Dividing Decimals**

**Textbook page 126-127**

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| --- | --- |
| **Divisor** | The number you are dividing by in a division problemEx. $12.2 ÷ 0.02=610 $ **divisor** $0.02 12.2$ |
| **Dividend** | The number to be divided in a division problemEx. $12.2 ÷ 0.02=610 $ **dividend** $0.02 12.2$ |
| **Quotient** | The result when one number is divided by another—the answer.Ex. $12.2 ÷ 0.02=610 $ **quotient** $610$ $0.02 12.2$ |
| **Steps** | 1. Move the decimal in the divisor to the right until it is a whole number

Ex. $3.6 × 1.2$$ 1.2 = 12$(1 space)   |
|  | 1. Move the decimal in the dividend the same # of places to the right

Ex. $3.6 × 1.2$$ 3.6 = 36$(1 space)  |
|  |  1. Write the new problem.

$36 × 12$ |
|  | 1. Write the dividend under the division sign and the divisor in front.

 $12 36$ |
|  | 1. Move the decimal up in the dividend into the quotient.

  **.** $12 36$**.**  |
|  | 1. Divide as usual. (You may need to add zeros)

 **.** $12 36$**.**  $- 36$ $ 0$ |
|  | 1. Check!!!!!!

Multiply the divisor by the quotient. $1 2$ $ ×$ $ 3$  $ 3 6$ You should get the  dividend for the answer.  |
|  | Ex. $12.8592 × 6$The divisor is already a whole number so you don’t need to move the decimal in either number. $6 12.8592$ |