

### **DECIMAL OPERATIONS**

- **Decimal operations** refer to the mathematical operations that can be performed with decimals: addition, subtraction, multiplication and division.
- The process for adding, subtracting, multiplying and dividing decimals must be followed in order to achieve the correct answer.
   Decimals can be used in all operations and also with integers in all operations. Decimals can also be used in algebraic equations.
- A typical situation of an equation with decimals is dollars and cents.



• When **dividing decimals by integers**, the decimal point is brought up into the answer and then the numbers are divided.

Example: 
$$3.24 \div 6 \rightarrow 6)3.24 \rightarrow 6)3.24 \rightarrow .54$$

$$30 \downarrow$$

$$24$$

$$24$$

$$24$$

$$0$$



• When dividing decimals by decimals or integers by decimals, the decimal point is sometimes moved, depending on the numbers being divided by. If 13.5 is divided by 1.5, the decimal point will need to be moved over in the divisor and dividend. This will affect where the decimal point is in the quotient or answer. If 14 is divided by 2.5, the decimal point again will have to be moved over in the divisor and dividend to make 2.5 a whole number, 25, and 14 to become 140. The decimal point is then moved into the answer and the numbers are divided.

Example: 9. 9.  $13.5 \div 1.5 \rightarrow 1.5$  )13.5  $\rightarrow$  15 )135.  $\leftarrow$  decimal moved 1 place  $\frac{135}{0}$ 







# **Try This!**

#### Add the following:

### Subtract the following:

3.72

.095

#### Div

16.7

3.9

# 240

4.2 the printa

### Solve for x:

$$x + 1.2 = 14.5$$

$$x - 22.65 = 5.07$$

$$$3.99x = $59.85$$

$$4.099 \div x = 59.85$$

**PREVIEW** 

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