## **Mental Math**

There are several ways that you can add and subtract decimals mentally to solve a problem.

## **Commutative Property of Addition**

You can add two decimal numbers in any order.

$$15.75 + 2.25 = 2.25 + 15.75$$

**Compatible numbers** are numbers that are easy to compute mentally.

$$2.6 + 9.3 + 7.4$$

2.6 and 7.4 are compatible because they are easy to add.

$$2.6 + 9.3 + 7.4 = (2.6 + 7.4) + 9.3$$
  
=  $10 + 9.3 = 19.3$ 

## **Associative Property of Addition**

You can change the groupings of addends.

$$1.7 + (1.3 + 7) = (1.7 + 1.3) + 7$$

With **compensation**, you adjust one or both decimal numbers to make computations easier and compensate to get the final answer.

$$3.76 - 1.26$$
 $-.01 - .01$ 
 $\downarrow$ 
 $3.75 - 1.25 = 2.5$ 

Add or subtract mentally.

**6.** How heavy are the Elephant and the Rhino combined?

## Weight of Zoo Animals

| Animal   | Weight (Tons) |
|----------|---------------|
| Hippo    | 2.5           |
| Elephant | 3.85          |
| Rhino    | 2.15          |
| Moose    | .5            |

7. What is the total weight of all four animals?