$\qquad$

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.

$$
\begin{aligned}
2.6+9.3+7.4 & =(2.6+7.4)+9.3 \\
& =10+9.3=19.3
\end{aligned}
$$

## 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.
$3.76-1.26$
$-.01-.01$
$\downarrow$
$\downarrow .75-1.25=2.5$

Add or subtract mentally.

1. $16.9+12.1=$ $\qquad$
2. $100.5-21.5=$ $\qquad$
3. $8.01+1.09=$ $\qquad$ 4. $2.65+4.01+3.34=$ $\qquad$
4. How much heavier is a Hippo than a Moose?
$\qquad$
5. 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?
