## The Three Meanings of Minus

The minus sign can mean three different things, depending on the context.

- It can mean negative. In front of a positive number, and only there, it means negative.

Example: -2 can mean negative 2.

- It can mean opposite. The opposite of a number is what you add to it to get zero. Example:
-2 can mean the opposite of 2 , which is negative 2 , since $2+-2=0$. Likewise, $-x$ means the opposite of $x$, and $x+-x=0$.
- It can mean subtract. Between two expressions, it means subtract the second expression from the first one. For example, $x-3$ means subtract 3 from $x$.

1. For each of the following, write an explanation of what the minus sign means.
a. $y-5$
b. $-(5 x+1)$
c. -2
d. $-x$
2. Write the value of $-x$ if:
a. $x=2$
b. $x=-3$.
3. True or False? (Explain your answers.)
a. $-x$ is always negative.
b. $-x$ can be positive.
4. Find the opposite of each quantity. Remember: A quantity and its opposite add up to zero.
a. $x$
b. 2
c. -2
d. $-x$
e. $x+2$
f. $x-2$
