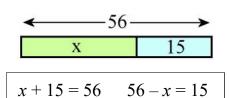


## **Bar Models in Addition and Subtraction**

Think of this **bar model** as a long board, cut into two pieces. It is 56 units long in total, and the two parts are 15 and *x* units long.

From the bar model, we can write TWO addition and TWO subtraction sentences—a **fact family**.

The x stands for a number, too. We just don't know what it is yet. It is an **unknown**.



$$15 + x = 56 \qquad 56 - 15 = x$$

From this bar model, we can write a **missing addend** problem. It means that a number to be added is "missing" or unknown:

$$769 + x = 1,510$$

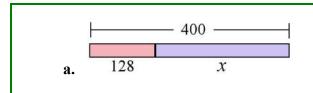
We can solve it by subtracting the one part (769) from the total (1,510).

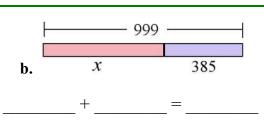


$$769 + x = 1,510$$

$$x = 1,510 - 769 = 741$$

1. Write a missing addend problem that matches the bar model. Then solve it by subtracting.





**c.** A car costs \$1,200. Dad has \$890. How much more does he need to buy it?

**d.** The school has 547 students, of which 265 are girls. How many are boys?

