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

Think of this <b>bar model</b> as a long board, cut into two pieces. It is 56 units long in total (you can think of inches, for example), and the two parts are 15 and $x$ units long.	<5 x	6
From the bar model, we can write TWO addition and TWO subtraction sentences—a <i>fact family</i> .	x + 15 = 56	56 - x = 15
The <i>x</i> stands for a number, too. We just do not know what it is yet. It is an <i>unknown</i> .	15 + x = 56	56 - 15 = x
From this bar model, we can write a <b>missing addend</b> problem.	← 1,5	510>
It means that a number to be added is "missing" or unknown.	769	Х
We can solve it by <b>subtracting</b> the one part (769) from the total $(1, 510)$	769 + x = 1,510	
X		- 769 = 741

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



Sample worksheet from www.mathmammoth.com