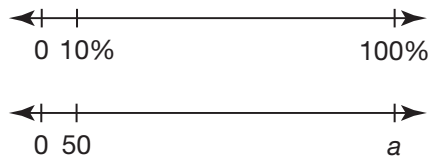


Applying Percents: Finding the Whole

You can draw a number line model to help you solve this problem:

Darlene spent 10% of her allowance and saved the rest. The amount she spent was 50 cents. How much is Darlene's allowance?

In the problem, 50 cents is the part and 10% is the percent. You need to find Darlene's allowance, a .



The model shows 10% as the percent, 50 cents as the part, and a , the whole you are trying to find.

A proportion can also help you find the whole.

$$\frac{10}{100} = \frac{50}{a}$$

$$a = 500$$

$$500 \text{ cents} = \$5.00$$

Darlene's allowance is \$5.00.

Think: 10 times what number equals 50?

Since $10 \times 5 = 50$, then

multiply 100×5 to get 500.

For **1** through **3**, draw a number line model to help you solve the problem.

- Li rode her bike 25% of the way to school. She rode 5 blocks. How many blocks does Li live from school?

- Bob brought 40% of the collected canned goods to the food pantry. If Bob brought 160 cans to the pantry, how many cans were collected?

- Sid memorized 60% of his lines for the class play. He memorized 60 lines. How many lines long was Sid's part in the play?
