

## **Extension Activity: Manipulating the Percentage Allocation Equation**

Name:	Date:
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**PART ONE DIRECTIONS:** Solve the equation  $I\left(\frac{p}{100}\right)=A_B$  for the variable where I is monthly income, p is percentage of income allocated to an expense, and  $A_B$  is the total amount budgeted to the expense.

1. 
$$\$1,257.00\left(\frac{p}{100}\right) = \$377.10$$

$$3.\$5,250.00\left(\frac{16}{100}\right) = A_B$$

2. 
$$I\left(\frac{15}{100}\right) = $390.00$$

$$4.I\left(\frac{25}{100}\right) = $853.00$$

**PART TWO DIRECTIONS**: Read the passage and use the equation  $I\left(\frac{p}{100}\right) = A_B$  to solve for the missing information.

1. Jessica is moving across the country to become a robotics engineer in San Francisco, California. Her monthly income will be \$7,250.00, and her apartment rent will be \$2,900.00. What percentage of her monthly budget will Jessica allocate to housing?



## **Calculating to Create a Budget**



2. Emanuel would like to spend no more than 7% of his monthly income on groceries each month. If Emanuel earns \$2,484.00 per month, how much is the most he should budget monthly for groceries?

