

Extension Activity: The Percentage Allocation Equation Answer Key

Name: _____ Date: _____

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.

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

A_B

$$p = 30\%$$

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

$$A_B = \$840.00$$

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

$$I = \$2,600.00$$

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

$$I = \$3,412.00$$

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

- 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?

$$p = 40\%$$

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?

$$A_B = \$173.88$$