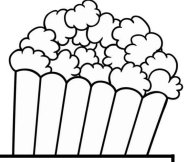


## APPLYING MULTI-STEP EQUATIONS



Answer the following questions. Be sure to justify your responses.

1. Mr. Majors ordered six boxes of candy and a bucket of popcorn at the concession stand. If the popcorn was \$3.20 and the total was \$18.20, what was the price of one box of candy?

Variable: \_\_\_\_\_

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

2. A student bought a juice pouch for \$2.50 and 3 bags of chips. The total cost was \$5.05. Write and solve an equation to determine the cost of a bag of chips.

Variable: \_\_\_\_\_

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

3. Mrs. Johnson purchased a total of 12 books and magazines for her office. The total bill was \$112. She spent \$16 on magazines, and the books cost \$12 each. How many books did she buy?

Variable: \_\_\_\_\_

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

4. The length of a rectangle is eight more than twice its width. The perimeter is 88 feet. Find the dimensions of the rectangle.

Variable: \_\_\_\_\_

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

5. Mrs. Perkins hosts a birthday party for her son and 7 guests. She orders 2 cookies and a cupcake for each child. The cost of the cupcake is \$2.75, and the total bill is \$46.00. What is the cost of a cookie?

Variable: \_\_\_\_\_

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

