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Core: #1, 2, 5, 6
Extended: #1, 2, 4 - 8
Advanced: #1 -4, 8, 9

Name: _____

Say It With Symbols – Investigation 2.2 Worksheet

For Exercises 1-3, recall the equations from the investigation.
(P = 2.50V − 500 and V = 600 − 500R where P = profit, V = visitors, and R = probability of rain)

1. Suppose the probability of rain is 50%. What profit can the concession stand expect to make?

2. What is the probability of rain if the profit expected is $100?

3. The manager estimates the daily employee-bonus fund B (in dollars) from the number of visitors V using the equation B = 100 + 0.50V.

a. Suppose the probability of rain is 30%. What is the daily employee-bonus fund?

b. Write an equation that relates the employee-bonus B to the probability of rain R.

c. Suppose the probability of rain is 50%. Use your equation to calculate the employee-bonus fund.

d. Suppose the daily employee-bonus fund is $375. What is the probability of rain?

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Say It With Symbols Ace Answers Investigation 4