

# Party Time

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**Reporting Category** Computation and Estimation

**Topic** Solving problems involving decimals

**Primary SOL** 5.5 The student will

- a) find the sum, difference, product, and quotient of two numbers expressed as decimals through thousandths (divisors with only one nonzero digit); and
- b) create and solve single-step and multistep practical problems involving decimals.

## Materials

- Bundle of Books flyer (attached)
- Party Time activity sheet (attached)
- Catalogues and sale flyers
- Calculators

## Vocabulary

*sum, difference, product, budget*

## Student/Teacher Actions (what students and teachers should be doing to facilitate learning)

1. Tell the students that you have \$50.00 to spend on new books for the classroom. Display the Bundle of Books flyer (attached). Have students read the flyer, and then, as a class, start selecting books they would like to purchase. Demonstrate how to estimate the cost after each item is selected. Have them stop when they are close to \$50.00. Have each student compute the actual cost of the books selected and the amount of money that would be left over.
2. Tell the students that they will be planning an end-of-the-year party for the class and they have \$100.00 to spend on food, decorations, and games. Distribute the Party Time activity sheet (attached), which lists the cost of each item. Working with partners, have students list the items they would select for the party. Have them use estimation to stop when they think they are close to the \$100.00 total. Have students exchange papers and figure the actual cost of the party and the amount of money left over. Determine who came closest to spending all the money without going over.

## Assessment

- **Questions**
  - Suppose your budget was increased to \$150. How would you adjust your spending for the party?
  - When planning your party, when did you use more than one operation? Which operations did you use? Why?

- **Journal/Writing Prompts**
  - Create a situation that requires more than one step to find a solution. Explain how you would solve it.
  - Describe the steps you took in planning your party, and identify the operations you used.
- **Other**
  - Select your favorite baseball team, and compute the batting averages of the players. Use a calculator if necessary. What operations do you need to use?

**Extensions and Connections (for all students)**

- Bring in catalogs, sale flyers, and menus. Have the students use calculators to figure out the cost of dinner for their family. Have them choose gifts for their friends and family, given a budget of \$75.00.
- Have students search the Internet to select items to decorate a new bedroom. “Purchase” furniture, electronics, or other items the students would like in the room. Keep a record of the purchases on a chart. Calculate totals and subtract from a given budget. Have students also determine how many hours of work it would take to pay for the items, given different hourly wages.
- Give students a set budget to plan a trip. Use the Internet to find hotel prices, car rentals, restaurant menus, and airline costs.

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# Party Time

Name \_\_\_\_\_ Date \_\_\_\_\_

You have \$100.00 to spend on items of your choice for an end-of-the-year party for our class.

Number of students in our class: \_\_\_\_\_

Food

- Hotdogs \$2.00 each
- Soft drinks \$3.99 per 12-pack
- Cookies \$2.99 per dozen
- Napkins \$1.34 for a package of 100
- Paper plates \$3.19 for a package of 20
- Chips \$1.87 per bag
- Fruit salad \$4.12 per gallon
- Cake (large) \$12.57

Decorations

- Helium balloons \$6.79 per dozen
- Streamers \$0.79 per package
- Plain balloons \$1.19 per 100

Games

- Ring Toss \$7.43
- Charades \$3.84
- Beanbag toss \$6.29

<u>Item Selected</u>	<u>Rounded Price</u>	<u># Needed</u>	<u>Estimate</u>