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**3** ▶ **Practice** • • • • • **Estimating Money Word Problems**

**Directions:** Use what you learned on page 13 about rounding and front-end estimation to solve the following word problems that deal with money.

Jean's parents have given her $100.00 with which to decorate her room.  She excitedly combs through magazines and catalogs to find the best prices on the items she wishes to
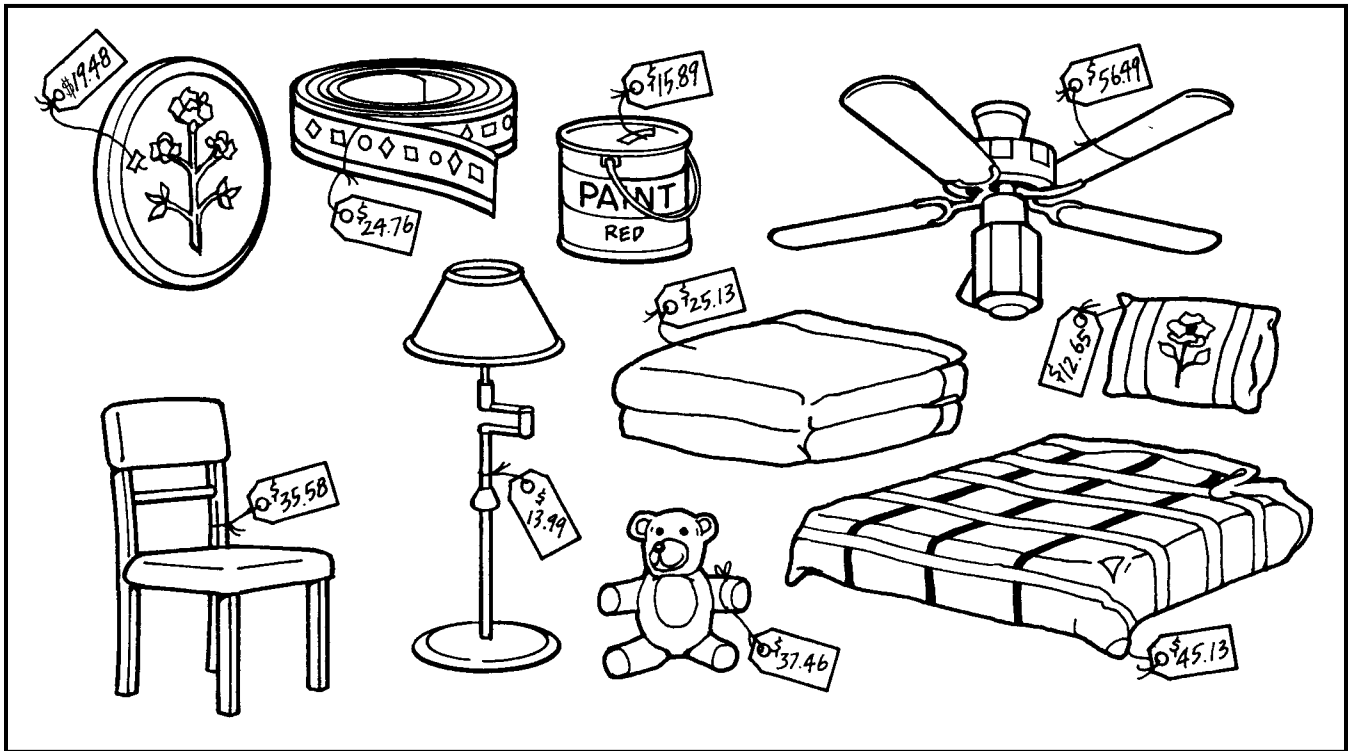
Without using paper, pencil, or a calculator, does Jean have enough to buy . . .

1. the paint, border, blanket, bedspread, and pillows?_____

2. the ceiling fan, wall hanging, lamp, and chair? _____

3. the stuffed bear, bedspread, and paint? _____

List three possible combinations of items Jean may select with which to spend her $100.00.

4. _____

5. _____

6. _____

7. Roger likes to buy a milkshake at lunch three days each week.  Milkshakes cost $1.25 each.  About how much money does Roger spend each month?  (**Hint:**  There are about four weeks in each month.) _____

8. Farley dumps his piggy bank.  He estimates that he has between 10 to 14 quarters, 25 to 29 dimes, 14 to 18 nickels, and 40 to 60 pennies.  About how much money does Farley have? _____

**Directions:** Use what you learned on page 38 to continue the T-chart patterns. Then solve for the unknown quantity.

Beatrice builds cubes with large marshmallows (*m*) and straws (*s*). For each cube she needs 8 marshmallows and 12 straws. The chart shows her progress as she continues to build cubes. Fill in the chart for the next three builds.

| *m* | *s* |
|-----|-----|
| 8 | 12 |
| 16 | 24 |
| 24 | 36 |
| — | — |
| — | — |
| — | — |
| 80 | *s* |
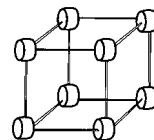
1. How much do the *m* values increase with each cube? _____

2. How much do the *s* values increase with each cube? _____

3. How many marshmallows does Beatrice use with the unknown *s* quantity? _____

4. Use the algebraic equation to solve for *s*. _____

$$s = 3 \times \tfrac{1}{2} m$$

Rafael builds a geometric dome using clay (*c*) and toothpicks (*t*). He starts with 4 clay balls and 6 toothpicks. He adds 2 clay balls and 3 toothpicks each time as he makes it bigger. The chart shows his progress and the pattern. Continue the pattern for the next three additions.

| *c* | *t* |
|-----|-----|
| 4 | 6 |
| 6 | 9 |
| 8 | 12 |
| 10 | 15 |
| — | — |
| — | — |
| — | — |
| 20 | $t_1$ |
| 50 | $t_2$ |

5. How much do the *c* values increase each time? _____

6. How much do the *t* values increase each time? _____

7. How many clay balls does Rafael use with the unknown $t_1$ quantity? _____

8. How many clay balls does Rafael use with the unknown $t_2$ quantity? _____

9. Look at the pattern between the two values. Write an algebraic equation showing the relationship between *t* and *c*. _____

10. Use your equation to solve for $t_1$. _____

11. Use your equation to solve for $t_2$. _____