

**Part 9** The Swim Meet

Choose an appropriate method to solve each of the following problems. For some questions you may need to find an exact answer, while for others you may only need an estimate. For each question, you may choose to use paper and pencil, mental math, or a calculator. Use a separate sheet of paper to explain how you solved each problem.

- Shannon is on the swim team. She swam the backstroke in 7 meets. Her times for each race were 53.19 seconds, 49.67 seconds, 47.30 seconds, 43.86 seconds, 46.07 seconds, 45.87 seconds, and 45.91 seconds. What was Shannon's average speed for the backstroke during these meets? (Use the median.)
- A four-person team is needed to swim the medley relay. Each team member swims 50 meters using a different stroke. During one relay, Lin swam 50 meters using the butterfly stroke in 59.53 seconds, Shannon swam the backstroke in 46.12 seconds, Blanca swam the breaststroke in 53.27 seconds, and Grace finished with the freestyle stroke in 36.41 seconds.
  - How many minutes and seconds did it take the team to complete the entire relay?
  - What is the total distance that the relay team swam?
- During the first swim meet of the season, Frank swam the 50-meter breaststroke event in 57.62 seconds. During the final meet of the season, he swam the 50-meter breaststroke in 44.51 seconds. How many seconds faster did Frank swim the 50-meter breaststroke at the end of the season than the beginning?
- During one swim meet Edward swam in 5 different events. He swam the 100-meter individual medley in 1 minute 38.30 seconds, the 50-meter butterfly in 42.48 seconds, the 50-meter breaststroke in 44.80 seconds, the 50-meter freestyle in 32.83 seconds, and the 50-meter backstroke in 45.87 seconds.
  - How many meters did he swim during this meet?
  - About how many minutes did Edward spend swimming during this meet?
- The final swim meet of the season began at 8:30 AM. It ended at 4:45 PM. How long was the swim meet?
- Parents held a bake sale during each meet to raise money for the team. During one meet, the parents sold cupcakes for \$.25 each. They sold 42 cupcakes. How much money did they get for the cupcakes?
- The ribbons for the winners cost \$.08 each. During the swim season the team used 648 ribbons. How much did the team spend on the ribbons for this season?