54. A sprinter finished a 100-meter race in a time of 12.63 seconds.

a. If the sprinter were able to keep the same rate of speed, how long would it take him to complete the 10,000-meter race?

b. A long-distance runner won first place in the 10,000-meter race with a time of 37 minutes, 30 seconds. What is the time difference between the long-distance runner's actual time and the sprinter's hypothetical time from part (a)?

55. Multiple Choice Find the least common multiple of the following numbers: 3, 4, 5, 6, 10, and 15.

A. 1 **B.** 15

C. 60 **D.** 54,000

56. Use what you found in Exercise 55. Write the following fractions in equivalent form, all with the same denominator.

$$\frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5} \quad \frac{1}{6} \quad \frac{1}{10} \quad \frac{1}{15}$$

For Exercises 57–60, find the greatest common factor of each pair of numbers.

57. 12 and 48 **58.** 6 and 9

59. 24 and 72 **60.** 18 and 45

For Exercises 61–64, use your answers from Exercises 57–60 to write a fraction equivalent to each fraction given.

61. $\frac{12}{48}$ **62.** $\frac{6}{9}$ **63.** $\frac{24}{72}$ **64.** $\frac{18}{45}$