- 1. Taxi town charges \$5 plus \$2 per mile to ride. Cab City charges \$10 plus \$1 per mile for a ride. How many miles would have the same cost at each company?
- 2. John is seven years younger than his sister Ann. The sum of their ages is 45. Find John's age.
- 3. The perimeter of a rectangle is 68 cm. The length is four more than the width. Find the dimensions of the rectangle.
- 4. Sydney walks a rectangular path around her house for exercise. If the length is 2 less than the width and Sydney covers a distance of 116 feet, find the width.

5. Kayleigh and Allison race. Kayleigh runs 5 miles per hour. Allison runs 3 miles per hour but has a 1 mile head start. Using the formulas below where h is hours and d is distance, how long does in take before they meet each other in the race?

**Kayleigh** d = 5h **Allison** d = 3h + 1