

1. The sum of 38 and twice a number is 124. Find the number.
2. The sum of two consecutive integers is less than 83. Find the pair of integers with the greatest sum.
3. A rectangle is 12 m longer than it is wide. Its perimeter is 68 m. Find its length and width.
4. The length of a rectangle is 4 cm more than the width and the perimeter is at least 48 cm. What are the smallest possible dimensions for the rectangle?
5. Find three consecutive integers whose sum is 171.
6. Find four consecutive even integers whose sum is 244.
7. Alex has twice as much money as Jennifer. Jennifer has \$6 less than Shannon. Together they have \$54. How much does each have?
8. A student received grades of 75 and 81 on two exams. What grade must the student earn on the third to maintain an 80 average?