

**Example 1: Number Problem**

The sum of the squares of two consecutive even natural numbers is 100. Determine the numbers.

**Example 2: Money Contributions**

Students sent flowers costing \$20 to a sick classmate. There were four fewer students contributing than was planned, requiring each of the others to give 25 cents more. How many students contributed to the gift originally?

**Example 3: Border Problem**

Peter's is planning to put a wooden deck of uniform width around his rectangular swimming pool in his backyard. If the swimming pool measuring 12 m by 24 m. He knows that the cost of the deck will be \$40 per square metre and has \$3040 in his budget to pay for the deck. What is the widest that the deck can be?

