Problem Solving: Guess and Check

Use Guess and Check to solve each problem.

1. Lawrence has 4 coins in his pocket. The coins have a value of 50 cents. What coins are in Lawrence’s pocket?

2. Of the 63 fifth graders in Wilson School, there are 3 more boys than girls. How many boys and how many girls are fifth-graders in Wilson School?

3. Carmen told James, “I am thinking of a 2-digit number. The digit in the tens place is greater than the digit in the ones place. The sum of its digits is 12. The product of its digits is 35.” What number is Carmen thinking of?

4. James told Carmen, “I am thinking of a 3-digit number. The sum of the digits in its hundreds and tens places is 8. The sum of the digits in its tens and ones places is 4. The product of its digits is 15.” What number is James thinking of?

5. Melanie gave her mother a bouquet of 24 flowers. The bouquet was made up of roses, carnations, and daisies. There were twice as many daisies as roses. There were 3 times as many carnations as roses. How many of each kind of flower were in the bouquet?

6. Paul rolled a number cube 4 times. He rolled a different number each time. The product of his numbers was 48. The sum of his numbers was 13. What numbers did Paul roll?
Problem Solving: Guess and Check

Use Guess and Check to solve each problem. Show Your Work

1. Lawrence has 4 coins in his pocket. The coins have a value of 50 cents. What coins are in Lawrence’s pocket?

   1 quarter, 1 nickel, 2 dimes

2. Of the 63 fifth graders in Wilson School, there are 3 more boys than girls. How many boys and how many girls are fifth-graders in Wilson School?

   33 boys, 30 girls

3. Carmen told James, “I am thinking of a 2-digit number. The digit in the tens place is greater than the digit in the ones place. The sum of its digits is 12. The product of its digits is 35.” What number is Carmen thinking of?

   75

4. James told Carmen, “I am thinking of a 3-digit number. The sum of the digits in its hundreds and tens places is 8. The sum of the digits in its tens and ones places is 4. The product of its digits is 15.” What number is James thinking of?

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5. Melanie gave her mother a bouquet of 24 flowers. The bouquet was made up of roses, carnations, and daisies. There were twice as many daisies as roses. There were 3 times as many carnations as roses. How many of each kind of flower were in the bouquet?

   4 roses, 8 daisies, 12 carnations

6. Paul rolled a number cube 4 times. He rolled a different number each time. The product of his numbers was 48. The sum of his numbers was 13. What numbers did Paul roll?

   1, 2, 4, 6