Name _____

# Pizza Patterns

Identifying a pattern can be a very helpful strategy when solving problems. A pattern is an arrangement of things repeated in an orderly way. Once you see the pattern in a problem, you can then extend that pattern if you need to.

**Getting started:** Read problem 1. Then look back at the problem to help you answer the questions below. Write your answers on the lines provided.

**Problem 1:** Business at Antonio's Pizza Palace has really been picking up! On Saturday, Antonio made 25 pizzas. He made 40 pizzas on Sunday, 55 on Monday, and 70 on Tuesday. If this trend continues, how many pizzas will Antonio make on Thursday? _____

- What are you to find out? _____
- How many pizzas did Antonio make on Saturday? _____ Sunday? _____ Monday? _____
  Tuesday? _____
- How many more pizzas were made on Sunday than on Saturday? _____
- How many more pizzas were made on Monday than on Sunday? _____
- How many more pizzas were made on Tuesday than on Monday? _____
- Do you see a pattern? Describe the pattern. _____

  _____
- How can you use this pattern to help you solve the problem? _____

  _____
- Which problem-solving strategy could you use to solve this problem? _____

**Solving problem 1:** A table would help you organize the information in the problem. A table would also help you see the pattern in the problem more clearly. Continue the table below. Notice that it has 2 rows: 1 for the days of the week and 1 for the number of pizzas that were made each day. Look back at the problem to see how many days you should include on the table. Then continue the pattern to fill in the number of pizzas made each day.

**Problem 2:** Antonio sells T-shirts that have his restaurant's name printed on them. Great advertising! On Saturday, Antonio sold 1 T-shirt. He sold 3 T-shirts on Sunday, 6 on Monday, 10 on Tuesday, and 15 on Wednesday. If sales continue in this way, how many T-shirts will Antonio sell on Friday? _____

| day | Sat. | |
|---|---|---|
| pizzas made | 25 | |