

Name \_\_\_\_\_

# Algebra: Analyze Patterns and Relationships

## Topic 15 Standards

5.OA.B.3, 5.G.A.2

See the front of the Student's Edition for complete standards.

Dear Family,

Your child is learning to generate two numerical patterns using two given rules. For example, given the rule “add 2” and the starting number 0, and the rule “add 4” and the starting number 0, he or she will be able to generate terms in the resulting sequences. He or she will use tables to identify the relationships between corresponding terms from the two patterns and then graph the ordered pairs generated from the number sequences.

Here is an activity you can do with your child to help him or her learn to generate numerical patterns given rules.

### What's My Rule?

**Materials:** Sheets of blank paper, pencil

**Step 1** Create the table shown.

**Step 2** Explain that Chris started with \$40 in his savings account. Lila started with \$50 in her savings account. They each put \$15 in their accounts at the end of each week.

**Step 3** Use the rule “add 15” to help fill in the table.

**Step 4** Ask your child to identify how much money Chris and Lila have each saved in all after different numbers of weeks.

**Savings**

Week	Chris	Lila
Start	\$40	\$50
1	\$55	\$65
2		
3		
4		
5		

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## Observe Your Child

### Focus on Mathematical Practice 1

Make sense of problems and persevere in solving them.

Help your child become proficient with Mathematical Practice 1. Discuss the relationship between corresponding terms in the number patterns. Ask your child if Chris will ever have as much saved as Lila if the patterns continue.