

# Standards-Based Assessment + Instruction

# **Preliminary Planning Sheet**

# Grade 3 – Mary Sells Popcorn

#### Domain(s)

Operations and Algebraic Thinking

#### **Major Underlying Mathematical Concepts**

- Patterns
- Days of week
- Money notation
- Number sense to \$2.10
- Addition/Multiplication

#### **Problem Solving Strategies**

- Model (manipulatives)
- Diagram/Key
- Table
- Tally chart
- Number line
- Graph
- Array

#### Formal Mathematical Language and Symbolic Notation

- Model
- Diagram/Key
- Table
- Number line
- Pattern
- Money notation (\$, .)
- Cost
- More/Less than
- Days, week, month
- Monday, Tuesday, Wednesday ...
- Multiple

- Input/Output
- Rule: \$0.05 · b = m
- Dollar
- Variable
- Graph
- Data
- Total/Sum
- 1st, 2nd, 3rd ...
- Dozen
- 1/2
- Running total



# Standard(s)

3.OA.D.9

Mathematical Practices MP.1 MP.3 MP.4 MP.6 MP.7

### Possible Solution(s)

Mary has to sell popcorn for 6 days.



#### **Possible Connections**

Below are some examples of mathematical connections. Your students may discover some that are not on this list.

- Patterns: Bags +2, Day +1, Money +\$0.10.
- All data in this task are even numbers.
- 6 days is 1 day less than 1 week.
- If Mary sells popcorn for 1 more day, that would be a week, and a total of \$2.80.
- On the 6th day, Mary earns \$0.30 more than \$1.80 she needs.
- Table is continued to show more sales.
- Find and use the rule  $0.05 \cdot b = m$
- Graph input/output of bags and cost.
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.
- Continue the pattern for 2 weeks or a month.

