

Standards-Based Assessment + Instruction

Preliminary Planning Sheet Grade 3 – Picking Tomatoes

Standard(s)

3.OA.D.9

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

Domain(s)

Operations and Algebraic Thinking

Major Underlying Mathematical Concepts

- Ordinal numbers
- Addition/Multiplication
- Number sense to 30
- Relationships/Patterns

Problem Solving Strategies

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

Formal Mathematical Language and Symbolic Notation

- Model
- Diagram/Key
- Table
- Graph
- Number line
- Day, week, month
- Per
- Pattern
- Multiples
- Odd/Even

- Greater than (>)/Less than (<)
- Equivalent/Equal to
- Ordinal numbers
- 1st, 2nd, 3rd ...
- Rules: $3 \cdot d = t, d + d + d = t$
- Variable
- Axis
- Input/Output
- Sets



Possible Solution(s)

Nick will pick 30 tomatoes on the 10th day.



Possible Connections

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

- Patterns: Day +1, Tomatoes +3
- The pattern is continued for 2 weeks.
- Nick picked tomatoes for 1 week plus 3 days.
- Solve more than one way to verify the answer.
- Relate to a similar task and state a math link.
- Nick picks a total of 165 tomatoes.
- Graph the input/output.
- Generalize and prove the rules: d + d + d = t, $3 \cdot d = t$ where d is day and t is tomato.
- Nick picked 27 more tomatoes on the 10th day than the 1st day.

