

Preliminary Planning Sheet

Grade 3 – Wild Turkeys

Domain(s)

Operations and Algebraic Thinking

Standard(s)

3.OA.D.9

Mathematical Practices

MP.1 MP.3 MP.4 MP.6 MP.7

Major Underlying Mathematical Concepts

- Number Sense to 112
- Days of the week
- Multiplication/Addition
- Patterns/Relationships

Problem Solving Strategies

- Model (manipulatives)
- Diagram/Key
- Table
- Graph
- Number line
- Bar graph

Formal Mathematical Language and Symbolic Notation

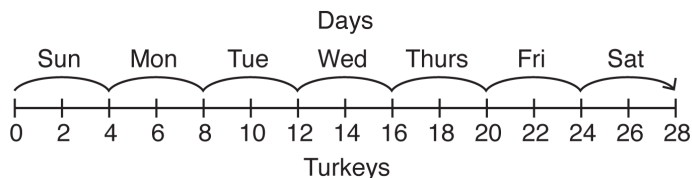
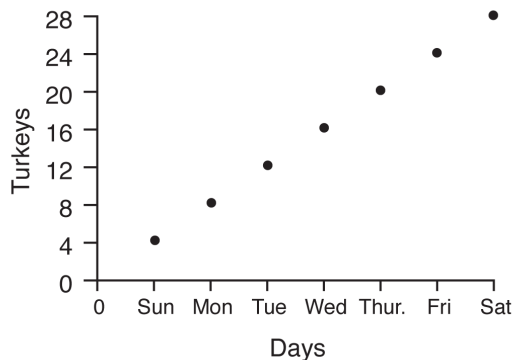
- | | |
|--|---|
| <ul style="list-style-type: none">• Model• Diagram/Key• Table• Graph• Bar graph• Number line• Per• Pattern• Day, week, month• Monday, Tuesday, Wednesday ...• Multiple | <ul style="list-style-type: none">• Total/Sum• Amount• Odd/Even• Dozen• Rule: $4 \cdot D = T$• Variables• Axis• Running total• Input/Output• 1st, 2nd, 3rd ...• More/Less than |
|--|---|

Possible Solution(s)

Colin and Ryan see 28 turkeys on Saturday. They saw 112 turkeys in all.

<p>Rule</p> <p>d is day</p> <p>t is turkeys</p> <p>$4 \cdot d = t$</p>

Day	Turkeys	Total Turkeys
Sun.	4	4
Mon.	8	12
Tue.	12	24
Wed.	16	40
Thurs.	20	60
Fri.	24	84
Sat.	28	112



$$\begin{array}{r}
 \text{Days} \\
 4 + 8 + 12 + 16 + 20 + 24 + 28 \\
 \underbrace{\hspace{1.5cm}} \quad \underbrace{\hspace{1.5cm}} \quad \underbrace{\hspace{1.5cm}} \\
 12 + 28 \quad + \quad 44 + 28 \\
 \underbrace{\hspace{1.5cm}} \quad \underbrace{\hspace{1.5cm}} \\
 40 \quad + \quad 72 = 112 \text{ turkeys}
 \end{array}$$

Possible Connections

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

- Patterns: Turkeys +4, even multiples
- Colin and Ryan saw a dozen turkeys on Tuesday.
- Pattern continued for 2 weeks or a month.
- Generalize and prove the rule: $4 \cdot d = T$, where d is day and T is turkeys.
- Even + Even = Even, so the running total is always an even sum.
- The boys see 24 (2 dozen) more turkeys on Saturday than Sunday.
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.