

*Preliminary Planning Sheet for a Mathematics Portfolio Piece/Task

Title of Task Bird Watching Content Strands(s) Addressed Functions + Algebra

State Standard(s) Addressed _____ Program Link _____

Underlying Mathematical Concepts

ordinal numbers
 pattern + 2
 number sense to 20
 counting on addition

Problem Solving Strategies/Representation

model (manipulatives)
 diagram/key
 table

Mathematical Language

model
 diagram/key
 table
 rule $d+d=b$ $2 \cdot d=b$
 pattern
 input/output
 per
 day, week, month
 ordinal numbers 1st, 2nd, ...
 multiples
 double odd/even

Possible Solution(s) Answer

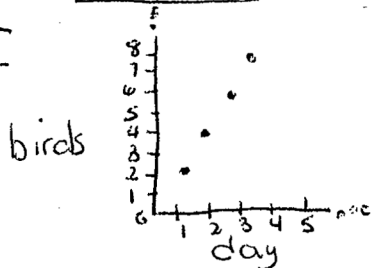
day	birds
1	2
2	4
3	6
4	8
5	10
6	12
7	14
8	16
9	18
10	20

20 birds

$2 \cdot d = b$
 $d + d = b$

key

d is day
 b is birds



Connections

- pattern day + 1 birds + 2
- Continue table to recreate problem to another day
- generalize rule $d+d=b$ - prove
- total birds 110
- bird pattern is even
- verify table by solving more than one way
- Relate to a similar problem and state math
- saw birds for 1 week and 3 days

Related Tasks