

Preliminary Planning Sheet Grade 2 – Barnyard Buddies

Domain(s)

Operations and Algebraic Thinking

Standard(s)

2.OA.A.1

Mathematical Practices

MP.1 MP.2 MP.3 MP.4 MP.5 MP.6 MP.7 MP.8

Major Underlying Mathematical Concepts

- One to four (one cow to four legs)
- One to two (one chicken to two legs)
- Combining
- Addition/Counting on
- Number sense to 52

Problem Solving Strategies

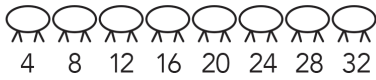
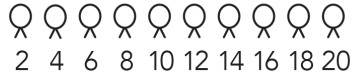
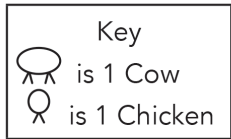
- Tally chart
- Table
- Diagram/Key

Formal Mathematical Language and Symbolic Notation

- Tally chart
- Table
- Diagram/Key
- Pair
- Per
- Pattern
- Multiple
- More than (>)/Greater than (>)/Less than (<)
- Equivalent/Equal to
- Dozen
- Halves, half of, two halves, one-half
- Odd/Even

Possible Solution(s)

There are 52 legs all together.



| | | | | | | | | | | |
|----------|---|---|---|---|----|----|----|----|----|----|
| Chickens | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Legs | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |

| | | | | | | | | | |
|------|---|---|----|----|----|----|----|----|------|
| Cows | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 32 |
| Legs | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | + 20 |
| | | | | | | | | | 52 |

Possible Connections

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

- The farmer saw 12 more cow legs than chicken legs (one dozen more).
- Two legs is a pair.
- The farmer saw fewer cows, but the most legs are cow legs.
- The number of chicken legs is half the number of cow legs.
- Patterns: Cow legs +4 (an even pattern), Chicken legs +2 (an even pattern).
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.