

Preliminary Planning Sheet Grade 2 – Ladybugs and Spiders

Domain(s)

Operations and Algebraic Thinking

Standard(s)

2.OA.A.1

Mathematical Practices

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

Major Underlying Mathematical Concepts

- Number sense to 60
- Addition/Counting on

Problem Solving Strategies

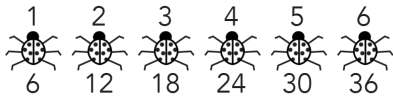
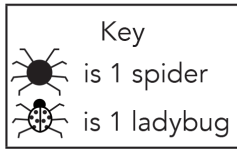
- Model (manipulatives)
- Diagram/Key
- Chart

Formal Mathematical Language and Symbolic Notation

- Model
- Diagram/Key
- Chart
- Dozen
- More than (>)/Greater than (>)/Less than (<)
- Equivalent/Equal to
- Pair
- Per
- Pattern
- Double
- Total/Sum

Possible Solution(s)

There is a total of 60 spider and ladybug legs. A spider has 8 legs, so 3 spiders have 24 legs. A ladybug has 6 legs, so 6 ladybugs have 36 legs.



Insect	Total Legs
Spider	8
Spider	16
Spider	24
Ladybug	30
Ladybug	36
Ladybug	42
Ladybug	48
Ladybug	54
Ladybug	60

Possible Connections

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

- There are 2 dozen spider legs.
- There are 3 dozen ladybug legs.
- There are 5 dozen legs in all.
- Patterns: Spider legs +8, Ladybug legs +6.
- Spiders have 4 pairs of legs.
- Ladybugs have 3 pairs of legs.
- Ladybugs have 2 more legs than spiders.
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.