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.

<table>
<thead>
<tr>
<th>Key</th>
<th>Insect</th>
<th>Total Legs</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Spider Icon]</td>
<td>Spider</td>
<td>8</td>
</tr>
<tr>
<td>![Ladybug Icon]</td>
<td>Spider</td>
<td>16</td>
</tr>
<tr>
<td>![Spider Icon]</td>
<td>Spider</td>
<td>24</td>
</tr>
<tr>
<td>![Ladybug Icon]</td>
<td>Ladybug</td>
<td>30</td>
</tr>
<tr>
<td>![Ladybug Icon]</td>
<td>Ladybug</td>
<td>36</td>
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<td>![Ladybug Icon]</td>
<td>Ladybug</td>
<td>42</td>
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<tr>
<td>![Ladybug Icon]</td>
<td>Ladybug</td>
<td>48</td>
</tr>
<tr>
<td>![Ladybug Icon]</td>
<td>Ladybug</td>
<td>54</td>
</tr>
<tr>
<td>![Ladybug Icon]</td>
<td>Ladybug</td>
<td>60</td>
</tr>
</tbody>
</table>

### 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.