

DMT INSTITUTE

Developing Mathematical Thinking Institute (DMTI)



Professional
Development



Curricular
Resources



Assessment

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DMTI Varied Practice Worksheets

This PowerPoint or PDF displays the worksheets that have varied situations (context, visual, equations, and other mathematical models) for children to work on. By completing these worksheets, children increase their foundational skills in the topic, which will help them with these standards and future mathematical topics.

1. If using a journal, have children present the worksheet and complete all the problems.
2. Or print the 'Varied Practice Worksheet Slides' for them to work on. Then, you can return to the PowerPoint or PDF to look at the keys to check their work.

Preschool – Misconceptions Part 1

NUMBER AND OPERATIONS

Preschool: Misconceptions Pt. 1 – Number and Operations


Materials Needed

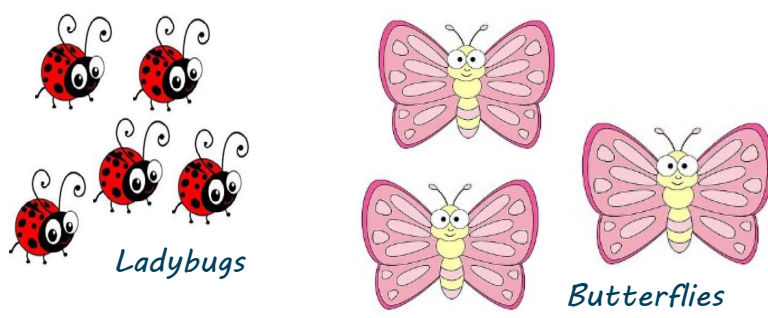

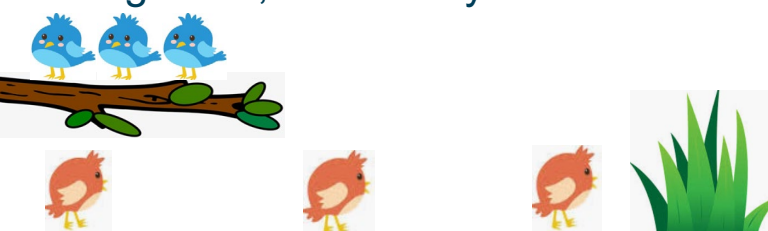
Printed copies of the Number Misconceptions varied practice sheet.

Instructions

1. Read the description of each task.
2. Explain to students that the given answer is not correct.
3. Have students provide the correct answer and explain why the incorrect answer given may have occurred.
4. Space is provided to note what students say in response.
5. Adults may want to use a piece of paper to cover each row so that the student sees only one task at a time.

Example:

Task	Incorrect Response	Correct Answer	Why did the student get the wrong answer?
<p>Are there more lady bugs or butterflies?</p>  <p>Ladybugs</p> <p>Butterflies</p>	<p><i>There are more butterflies.</i></p>	<p><i>There are more ladybugs.</i></p>	<p><i>The butterflies are larger, but there are only 2 butterflies. There are 5 ladybugs. 5 is more than 2.</i></p>

Task	Incorrect Response	Correct Answer	Why did the student get the wrong answer?
<p>Are there more lady bugs or butterflies?</p>  <p><i>Ladybugs</i> <i>Butterflies</i></p>	<p><i>There are more butterflies.</i></p>		
<p>How many ladybugs are there in all?</p> 	<p><i>There are 4 ladybugs.</i></p>		
<p>Are there more birds on the tree branch, on the ground, or are they the same?</p> 	<p><i>There are more birds on the ground than in the tree.</i></p>		



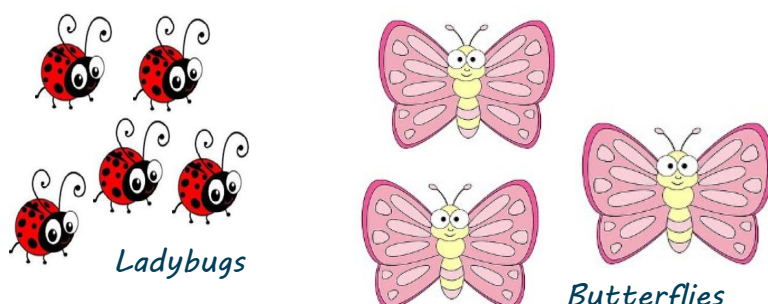

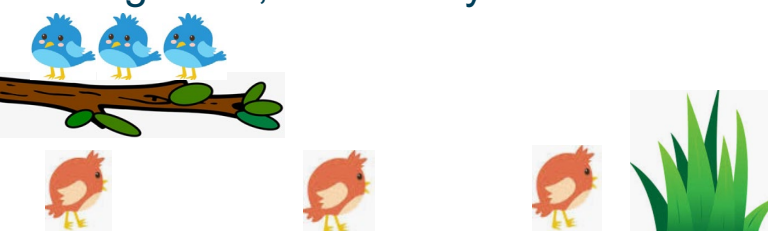
“The Developing Mathematical Thinking Institute (DMTI) is dedicated to enhancing students’ learning of mathematics by supporting educators in the implementation of research-based instructional strategies through high-quality professional development, curricular resources and assessments.”

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KEY

Answers may vary.

Task	Incorrect Response	Correct Answer	Why did the student get the wrong answer?
<p>Are there more lady bugs or butterflies?</p>  <p>The image shows five ladybugs on the left and three butterflies on the right. The ladybugs are arranged in two groups: one with two and one with three. The butterflies are arranged in two groups: one with one and one with two.</p>	<p><i>There are more butterflies.</i></p>	<p><i>There are more ladybugs.</i></p>	<p><i>The butterflies are larger, but there are only 3 butterflies. There are 5 ladybugs. 5 is more than 3.</i></p>
<p>How many ladybugs are there in all?</p>  <p>The image shows a field of grass with five ladybugs. Four are in a cluster on the left, and one is on the right.</p>	<p><i>There are 4 ladybugs.</i></p>	<p><i>There are 5 ladybugs.</i></p>	<p><i>You have to find how many there are in all. There is a group of 4 ladybugs, but there is also 1 more ladybug you can see. 4 and 1 is 5, so there are 5 ladybugs. You have to count them all.</i></p>
<p>Are there more birds on the tree branch, on the ground, or are they the same?</p>  <p>The image shows three blue birds on a tree branch and three brown birds on the ground. There is also a patch of grass on the ground.</p>	<p><i>There are more birds on the ground than in the tree.</i></p>	<p><i>There are the same number of birds in the tree as there are on the ground.</i></p>	<p><i>The birds on the ground are spread out so it looks like there are more. If you count each group, you get 3 birds each.</i></p>