

DMT INSTITUTE

Developing Mathematical Thinking Institute (DMTI)



Professional
Development



Curricular
Resources



Assessment

Jonathan Brendefur, PhD

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.

Grade K – Misconceptions Part 2

MEASUREMENT AND GEOMETRY

Grade K: Misconceptions Pt. 2 – Measurement and Geometry


Materials Needed

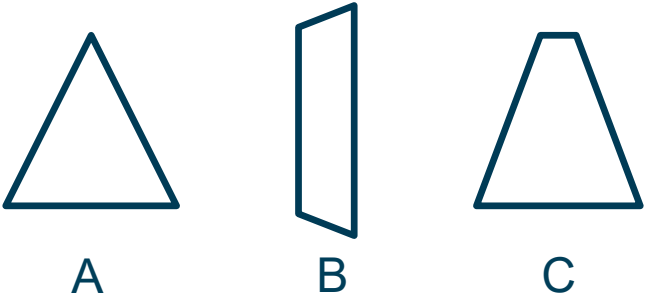
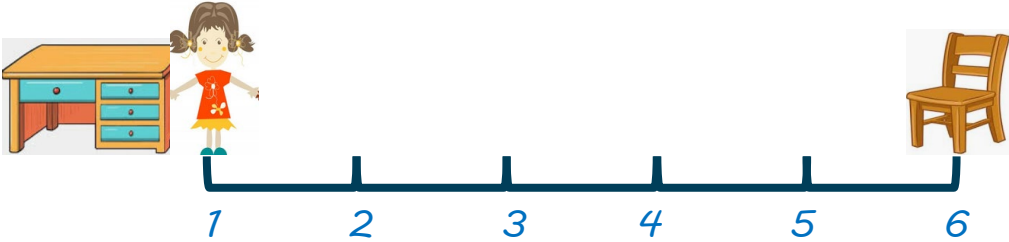
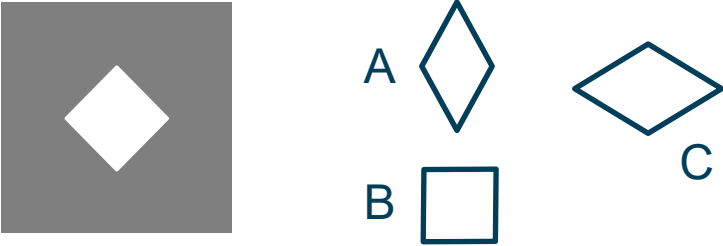
Printed copies of the Measurement and Geometry Misconceptions varied practice sheet.

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?
Which shape doesn't belong?  A B C	<i>Shape A doesn't belong.</i>	<i>Shape B doesn't belong.</i>	<i>Shapes B and C look a little alike, but Shapes A and C have four sides. Shape B only has 3 sides.</i>

Task	Incorrect Response	Correct Answer	Why did the student get the wrong answer?
<p>Which shape doesn't belong?</p>  <p>A B C</p>	<p><i>Shape B doesn't belong.</i></p>		
<p>Maggie counted how many jumps it takes to jump from the desk to the chair.</p> 	<p><i>Maggie took 6 jumps.</i></p>		
<p>Which shape fills the missing space in the gray square?</p>  <p>A C</p> <p>B</p>	<p><i>Shape A fills the missing space.</i></p>		



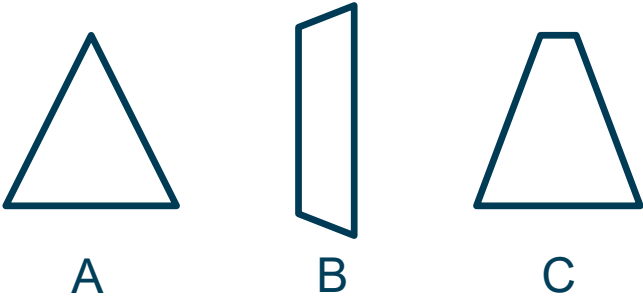
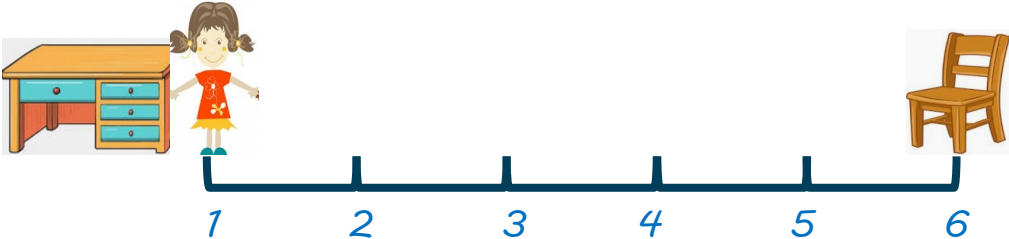
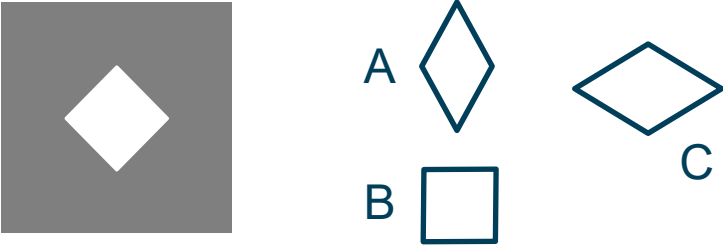
“The Developing Mathematical Thinking Institute (DMTI) is dedicated to enhancing students’ learning of mathematics by supporting educators in the implementation of research-based instructional strategies through high-quality professional development, curricular resources and assessments.”

For more information contact
Dr. Brendefur at jbrendefur@dmtinstitute.com



KEY

Answers may vary.

Task	Incorrect Response	Correct Answer	Why did the student get the wrong answer?
<p>Which shape doesn't belong?</p>  <p>A B C</p>	<p>Shape B doesn't belong.</p>	<p>Shape A doesn't belong.</p>	<p>Shapes A and C look a little alike, but Shapes B and C have four sides. Shape A only has 3 sides.</p>
<p>Maggie counted how many jumps it takes to jump from the desk to the chair.</p> 	<p>Maggie took 6 jumps.</p>	<p>Maggie took 5 jumps.</p>	<p>You have to start at 0 when you count your jumps. You haven't made 1 jump until you have made the first jump.</p>
<p>Which shape fills the missing space in the gray square?</p>  <p>A B C</p>	<p>Shape C fills the missing space.</p>	<p>Shape B fills the missing space.</p>	<p>Shapes A and C are turned the same direction as the missing space, but if you turn Shape B it will fill the space. Shapes A and C are not the right shape to fill the space.</p>