

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.

Grade 2 – Misconceptions Part 2

MEASUREMENT AND GEOMETRY

Grade 2: Misconceptions Pt. 2 – Measurement and Geometry


Materials Needed

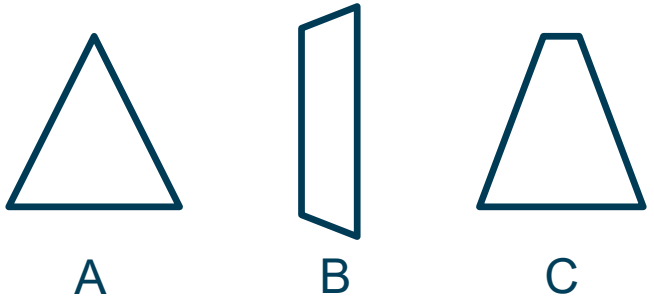

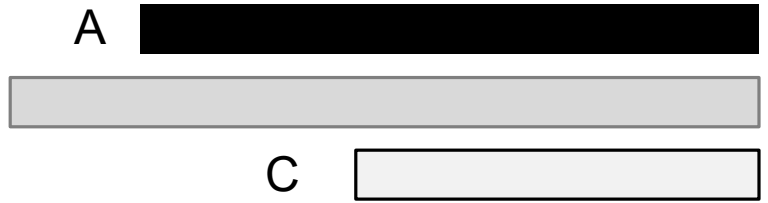
Printed copies of the Measurement and Geometry Misconceptions varied practice sheet.

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 for students to write their responses or to have someone write the responses down.
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>How many units long is the pencil?</p> 	<p><i>The pencil is 8 units long. I marked each unit as I counted it.</i></p>		
<p>Which piece of paper is longer or are they the same?</p>  <p>A B C</p>	<p><i>All three pieces of paper are the same.</i></p>		



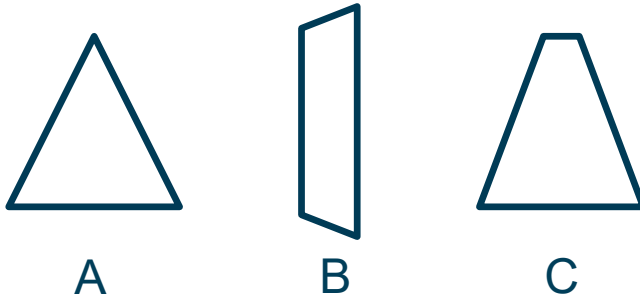

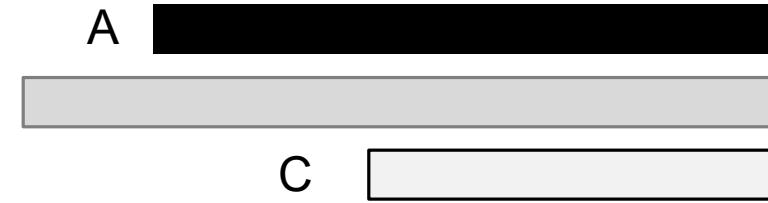
“The Developing Mathematical Thinking Institute (DMTI) is dedicated to enhancing students’ learning of mathematics by supporting educators in the implementation of research-based instructional strategies through high-quality professional development, curricular resources and assessments.”

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KEY

Answers may vary.

Task	Incorrect Response	Correct Answer	Why did the student get the wrong answer?
<p>Which shape doesn't belong?</p>  <p>A B C</p>	<p><i>Shape B doesn't belong.</i></p>	<p><i>Shape A doesn't belong.</i></p>	<p><i>Shapes A and C look a little alike, but Shapes B and C have four sides. Shape A only has 3 sides.</i></p>
<p>How many units long is the pencil?</p> 	<p><i>The pencil is 8 units long. I marked each unit as I counted it.</i></p>	<p><i>The pencil is 7 units long.</i></p>	<p><i>You cannot count the first unit until you have iterated the entire unit. The marks show that 0 was counted as 1.</i></p>
<p>Which piece of paper is longer or are they the same?</p>  <p>A B C</p>	<p><i>All three pieces of paper are the same.</i></p>	<p><i>Paper B is the longest.</i></p>	<p><i>Even though all of the papers end at the same place, they do not start at the same place, so B is longest.</i></p>