

7th GRADE MATH PERFORMANCE TASKS

GEOMETRY

Name: _____ Date: _____

PLAYGROUND DESIGNER

 PERFORMANCE TASK

OVERVIEW 

You will step into the shoes of a playground designer. Your school has decided to build a new playground with a unique geometric structure. As the lead designer, you have been tasked with determining the measures of various angles to ensure the safety and functionality of the design.

TASK #1 

Imagine you are designing a new playground for your school. The playground will have a unique geometric structure, and you have been tasked with determining the measures of various angles to ensure the safety and functionality of the design. In the playground design, there are four angles labeled as A, B, C, and D. You know that:

- Angle A is a right angle (90 degrees).
- Angle B is a supplementary angle to Angle C.
- Angle D is a complementary angle to Angle C.

To find the measures of angles B, C, and D, you need to set up and solve equations based on the given information.

Write an equation to find each angle.

TASK #2 

Solve each equation that you wrote in task #1 to find the measure of each angle. Remember, Angle C is 40 degrees.



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TASK #3 

Now that you have found the measures of angles B, C, and D, determine if they add up to form a complete angle (360 degrees) or not. Explain your findings.

TASK #4 

Within the playground structure, there are vertical angles formed. Identify the pairs of vertical angles and calculate their measures based on the information you have.

Mathematics Task Collection

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**9 Real-Life
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Geometry Performance Task

Ensheng Dong

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