

Domino Math
Primary/First Grade

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Subject Area: Math

Area of Implementation: After beginning addition and before fact families.

Task #1 Student will be able to count, sort, and organize dominoes into different patterns.

Core Math Goal: Sorting, based on numerical understanding.

Common Curriculum Goal: Understand patterns, relations, and functions.

Academic Standards Addressed: Sort and classify objects using one or more attributes by observing relationships.

Materials needed: Several sets of double six dominoes.

1. Students will be paired into groups. Each group will be given one complete set of double six dominoes. Students will be encouraged to play, sort, count, and talk to their partner about their dominoes. (8-10 minutes)

Sample questions to ask groups:

"What have you noticed about your dominoes?" "How are they alike?" "Have you discovered any differences?"

2. Groups will be asked to sort their dominoes into groups. Students will explain how and why they sorted their dominoes to another group. (5 minutes)

3. Students will be asked to look at their dominoes. Students will be asked to create a pattern using their dominoes. (10 minutes)

Sample questions to ask:

"Tell me about your pattern?" "What would come next?" "What makes a pattern?" "How many items do you need to make a pattern?"

4. Teacher will take pictures of completed patterns and download to be projected. Teacher will randomly pick students to present their pattern to the class. (10 minutes)

Task #2 Students will be able to create equations using different dominoes.

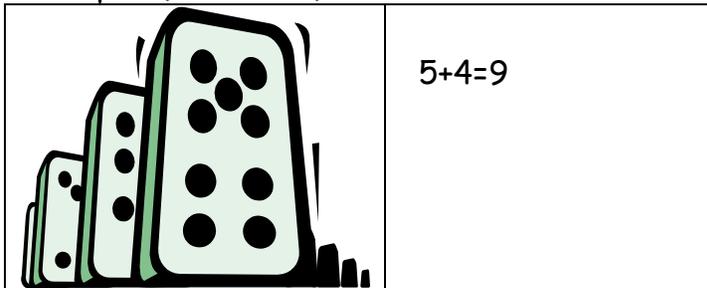
Core Math Goal: Students will recognize the correlation between the dots on the dominoes and number symbols. Students will understand how to combine two numbers.

Common Curriculum Goal: Understand meanings of operations and how they relate to one another.

Academic Standards Addressed: Represent situations using models of addition and subtraction (e.g., putting together or adding on, taking away, finding the difference, comparing).

Materials needed: Several sets of double six dominoes. Paper and pencils.

1. Teach students how to use a domino to write a number sentence. For example: (5 minutes)



2. Have students use their dominoes to choose any domino, draw a picture of that domino and then write the corresponding number sentence. Have students continue using their dominoes to create as many number sentences as possible. (10 minutes)

Sample questions to ask: "How many number sentences can you create?" "Are any of the number sentences alike?" "Do you ever have the same answer?" "Why?" "Do you see any patterns?"

3. Ask students to use their dominoes to create as many number sentences as they can that add up to the number 10. Have students draw and write their answer. Have students discuss their findings with a partner. (10 minutes)

Sample questions to ask: "If you were given double 12 dominoes instead of double six dominoes would your answer be different?"