

# Sort and Count Dog Bones

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Discipline / Subject: Math/Number Sense

Topic: Students will sort and count different color dog bones.

Grade Level: PK-Kindergarten

Resources / References / Materials Teacher Needs:

1. Milk Bone brand Flavor Snacks (biscuits for small and medium dogs – 5 flavors) – 24 ounce box
2. Dog Bowl
3. 2"x2" squares of paper (optional)
4. Pencils or markers (optional)
5. Number line (optional)

Lesson Summary:

Students will take the given number of dog bones in the bowl and sort them by the 5 colors given. When the bones are sorted, students will count each color set separately telling which color has the most, the least, or equal (same) amounts. The last task is to count the total number of dog bones.

Standards Addressed: (Local, State, or National)

Alaska state standards:

The student will demonstrate conceptual understanding of whole numbers to 20 by:

[K] N-1 demonstrating 1-1 correspondence (M1.1.1)

[K] N-2 recognizing and counting whole numbers from 0-20 (M1.1.1)

[K] N-3 writing and ordering whole numbers from 0-20 (M1.1.1)

[K] EandC-1 comparing the number of objects in different sets using more, less, same

[K] F and R-2 identifying, sorting, and classifying objects by attribute...(M4.1.1)

[K] F and R-5 showing more, less, or equal to using objects

Learning Objectives:

The student will:

1. Sort dog bones by color
2. Demonstrate 1-1 correspondence in counting dog bones in each set
3. Write the number in each set on a 2"x2" piece of paper (optional)
4. Compare the number of bones in each color set (5) by using more, less, same (equal)
5. Show 1-1 correspondence by counting the total number of dog bones (all sets)
6. Write the total number of bones counted on a 2"x2" piece of paper (optional)

Method of Assessment for Learning:

Teacher assessment

Procedural Activities:

1. Students come individually to table work.
2. Students sort dog bone biscuits (that are in a dog dish on the table) by color. There are 5 different colors.
3. When the bones are sorted the student counts the number of bones in each set.
4. The student writes the number of each set on a 2"x2" piece of paper and places it under the set (optional).
5. Next, the student compares the sets. The teacher asks, "Which set has more?" "Which set has less?" "Are any of the sets the same (equal)?"
6. The student is then directed to count the total number of dog bones, showing one-to-one correspondence.
7. The student writes the total number on a 2"x2" piece of paper (optional).

**Materials Students Need:**

1. Dog bowl with 5 colors of dog bones
2. 2"x2" pieces of paper (optional)
3. Pencil or marker (optional)

**Technology Utilized to Enhance Learning:** Use [www.iditarod.com](http://www.iditarod.com) to show how the mushers snack the dogs.

**Other Information:**

**Modifications for Special Learners/ Enrichment Opportunities**

Allow students who breeze through the sorting process the opportunity to write the number of bones in each set (and the total number of bones) for enrichment.