

# NWEA Assessment Item Illustrating K.MD.B.3

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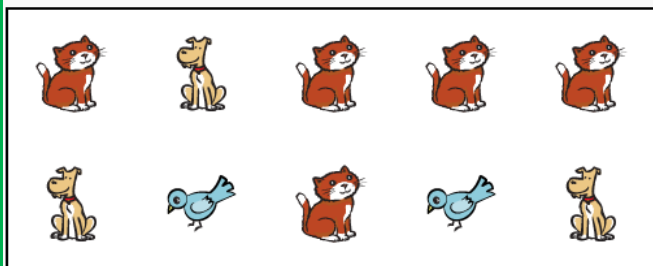
**Domain:** Measurement and Data

**K.MD.B:** Classify objects and count the number of objects in each category.

**Calculator Availability:** No



The picture shows 10 animals.



How many of each animal are there in the picture? Move a number to each line to show the answer.



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**Alignment: K.MD.B.3:** Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.

Although this standard deals with classifying and sorting objects by understanding attributes of the objects to classify and sort, it also supports the learning of the Counting and Cardinality domain. Once students classify the animals by category, they count each group of animals, and then represent each count with a numeral.

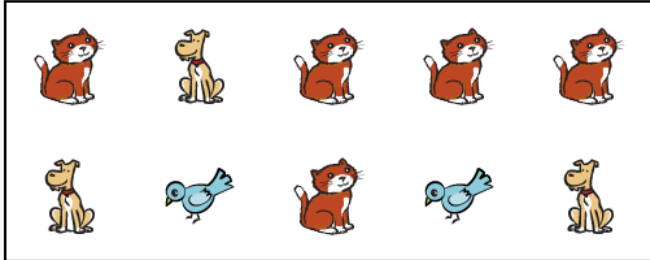
**Coherence:** Sorting and counting objects is the first step in understanding categorical data. In grade 1, students will sort up to three categories of objects and represent the count of each category through a variety of data representations.<sup>1.MD.C.4</sup> This work will continue in grade 2 with single-unit bar or picture graphs with up to four categories<sup>2.MD.D.10</sup> and in grade 3 with multi-unit bar or picture graphs.<sup>3.MD.B.3</sup> All of the primary-grade work with categorical data will eventually lead to bivariate categorical data and two-way tables in grade 8.<sup>8.SP.A</sup> Within kindergarten, this standard also supports understanding counting out objects<sup>K.CC.B.5</sup> and representing a set of objects with a numeral.<sup>K.CC.A.3</sup>

**Rigor:** This item attends to conceptual understanding, procedural skill, and application. Students use and connect multiple grade-level concepts, including counting objects and representing them with a numeral, as well as classifying objects, which increases the demand on conceptual understanding.

Counting objects involves procedural skill and the representation of animals adds a real-world application of mathematics.

**Answer Key:**

The picture shows 10 animals.



How many of each animal are there in the picture? Move a number to each line to show the answer.



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