

**Interdisciplinary Exploration** ▪ *Dogs—Loyal Companions*

## Mathematics: Making a Bar Graph

The table below lists the weights of different dog breeds. Use the table to make a bar graph on a sheet of graph paper. Label the vertical axis "Number of dog breeds." Label the horizontal axis "Mass (kg)." Then use the graph to answer the following questions.

**Weights of Various Dog Breeds**

Breed	Mass (kg)	Breed	Mass (kg)
Airedale terrier	27	German shepherd	39
Beagle	14	Golden retriever	34
Bearded collie	23	Great Dane	68
Black and tan coonhound	27	Keeshond	18
Border terrier	7	Pekingese	5
Boxer	34	Pug	8
Chow chow	27	Saint Bernard	90
Cocker spaniel	13	Shetland sheepdog	11
Dalmation	23	Whippet	10
English setter	32	Wire fox terrier	9

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Write your answers in the spaces provided.

1. What is the range of masses for dog breeds? \_\_\_\_\_
2. What is the minimum mass? \_\_\_\_\_ How many breeds have the minimum mass? \_\_\_\_\_
3. What is the maximum mass? \_\_\_\_\_ How many breeds have the maximum mass? \_\_\_\_\_
4. What is the mode (the mass that occurs most frequently)?  
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5. What is the average mass? (Total all the masses, and then divide by the number of breeds.) \_\_\_\_\_