

Dogs and Collars	
Problem wording	<p>A new animal shelter has opened in Purchil, where most of the animals are dogs. Some live there all the time. Others are there just a few days or weeks at a time when their owners go on a trip or for other reasons. We've been asked to help out as shelter volunteers to solve a few problems. Since we couldn't bring any real dogs to class today, we've made some fake ones. Like these.</p> <ul style="list-style-type: none"> • Imagine we have five dogs. How many collars would we need to put one collar on each dog? • And what if we had one hundred dogs? • How did you figure out we would need one hundred? • And what if we have x number of dogs?
Purpose	<ul style="list-style-type: none"> • To establish the relationship between number of dogs and number of collars. • To predict the number of collars needed for a 'large' number of dogs. • To establish the relationship between an indeterminate number of dogs and the respective number of collars. • To explain the relationships established.
Suggestions for classroom delivery	<p>Students may be given manipulatives or pictorial materials representing dogs and collars. That may help them understand the problem wording and explore the relationships involved in each question.</p>