

Writing sets for a real-world situation using descriptive and roster.

Problem

Explanation

Show Another

Writing sets for a real-world situation using descriptive and roster forms

QUESTION

There are nine types of animals at an animal shelter. Two veterinarians treated animals yesterday. Here is a summary of the animals treated by each veterinarian.

- Fish and gerbils were treated by both Dr. Cox and Dr. Walker.
- Birds, snakes, and turtles were treated by Dr. Cox but not Dr. Walker.
- Cats, dogs, and rabbits were treated by Dr. Walker but not Dr. Cox.
- Mice were treated by neither Dr. Cox nor Dr. Walker.

What do these have in common?

Write each set in the indicated form.

(a) Descriptive form: The set of animal types at the shelter treated by Dr. Walker
Roster form: {fish, gerbils, cats, dogs, rabbits}
(b) Roster form: {fish, gerbils, birds, snakes, turtles, cats, dogs, rabbits}
Descriptive form: Choose one
(c) Roster form: {birds, snakes, turtles, mice}
Descriptive form: Choose one

treated by both Dr. Cox and Dr. Walker

treated by Dr. Cox, but not Dr. Walker