

Petty Differences

You need ★ classmates

Activity One

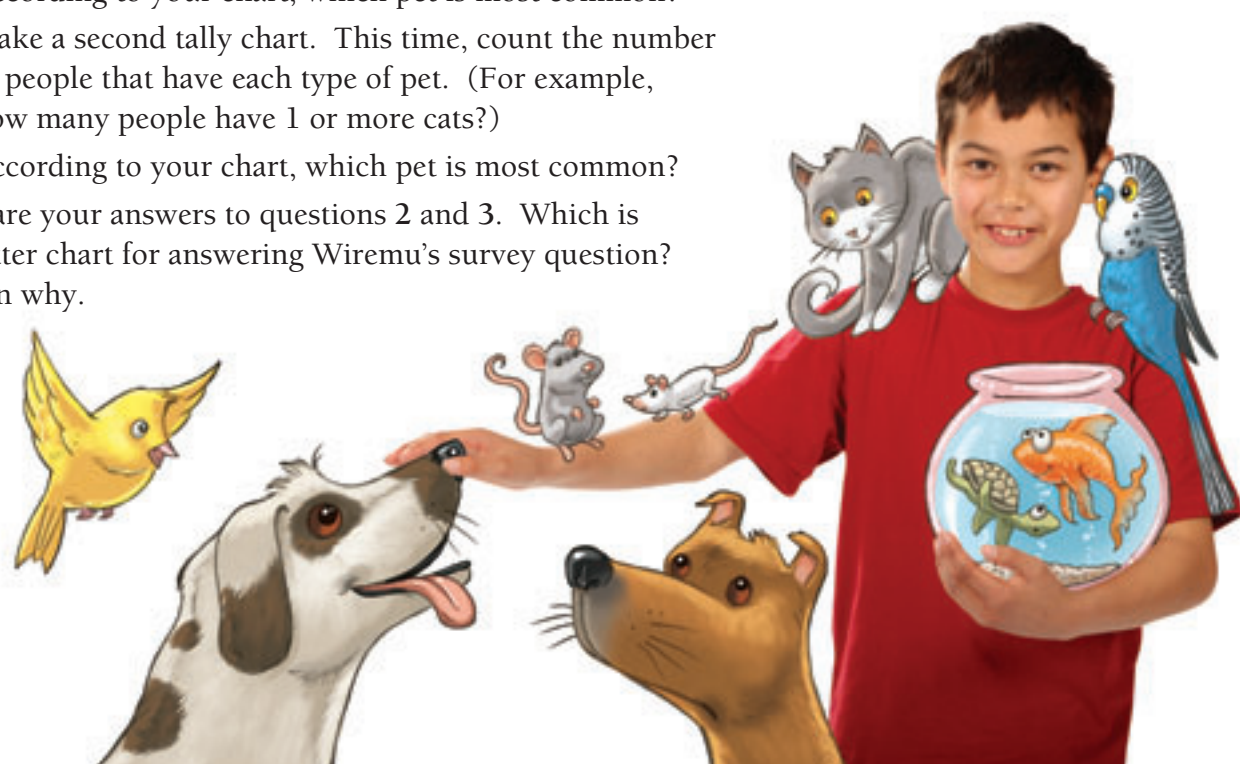
Wiremu is allowed to choose a pet for his birthday. He decides to find out what pets his classmates have. He gives each classmate a blank data card, asks them to list any pets they have, and collects the cards.



What Pets Do You Have?

1 cat	None, unless you count 2 goldfish in a bowl	2 turtles and a rotti cross	2 cats and 1 dog
Nothing	1 dog	0	Nothing
None	1 dog, 2 cats, 5 fish	8 dogs, 7 cats, 3 horses	My sister
A canary	2 cats	1 cat, 12 fish	1 axolotl
1 cat, but she's my mum's.	7 fish, a budgie, a poodle – and a cat in Aussie	1 cat	1 dog. I had 3, but I gave 1 to my cousin and 1 died.
No pets	3 birds. 1 is sick and being treated.	3 female mice	3 female mice

1. With a classmate, discuss Wiremu's data. Which information is unnecessary? Which data is difficult to interpret?
2.
 - a. Using a tally chart, count the number of each type of pet.
 - b. According to your chart, which pet is most common?
3.
 - a. Make a second tally chart. This time, count the number of people that have each type of pet. (For example, how many people have 1 or more cats?)
 - b. According to your chart, which pet is most common?
4. Compare your answers to questions 2 and 3. Which is the better chart for answering Wiremu's survey question? Explain why.

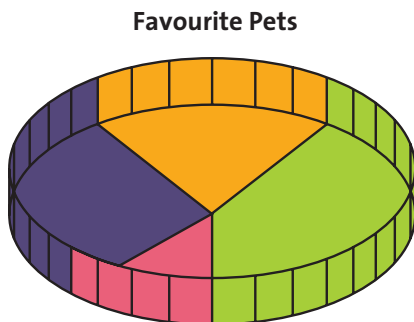


Activity Two

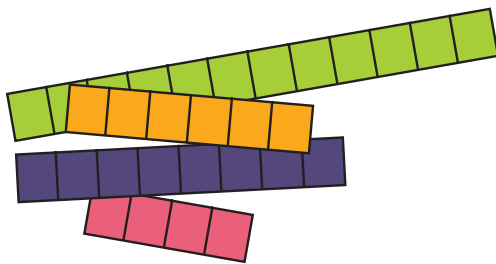
1. The class next door did a similar survey, but they were asked to name their favourite pet. The results are shown on this tally chart:

Cats	### ###	12
Dogs	###	6
Horses	###	8
Guinea pigs		4

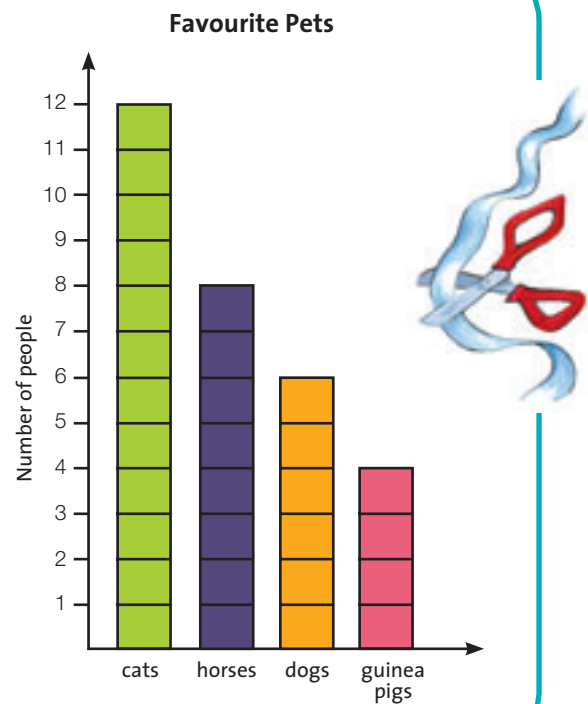
- What is the total number of students in the class next door?
- Divide a cardboard strip into equal sections to match the number of students in the class next door. Using a different colour for each kind of pet, colour the sections of your cardboard strip to make a strip graph of the favourite pets for that class.
- Bend it into a circle and use it to make a pie chart like this:



- Cut it into pieces to make a bar graph.



We can only choose one type of pet for this survey. But I like them all!



- What information do the graphs show?
2. Discuss with a classmate which graph you would prefer to use to show the information and why.

Focus

Cleaning and collating data and communicating findings