Discussion Problems
Step 3: Interpret Pictograms (1-1)

National Curriculum Objectives:

Mathematics Year 2: (2S1) Interpret and construct simple pictograms, tally charts, block diagrams and simple tables

About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 2 Statistics resources.

Did you like this resource? Don't forget to review it on our website.

Interpret Pictograms (1-1)

1. Three friends are discussing the pictogram below.

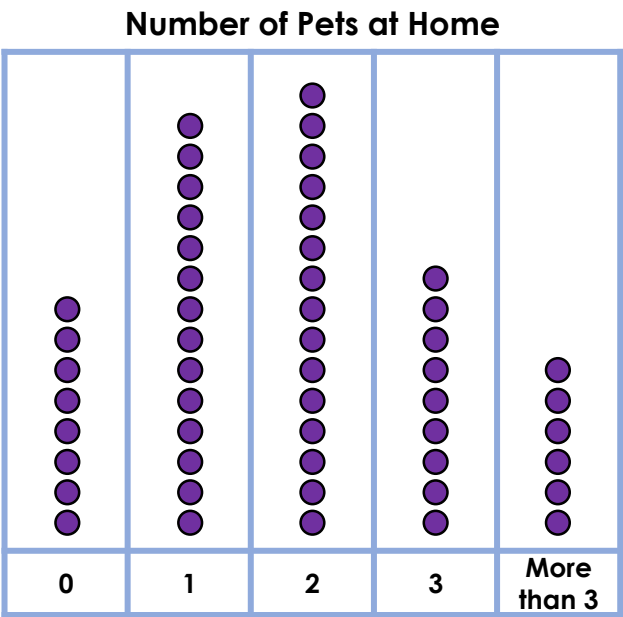**Jordan:** Having a pet is more popular than not having a pet.

Ellie: There are 25 people that have fewer than 2 pets.

Lisa: There are 6 people that have at least 24 pets between them.

Number of Pets at Home

0	1	2	3	More than 3

● = 1 person

Use the pictogram to help you investigate whose statements are correct.

If a fourth friend joins and makes a statement that is also correct, what could it be?

2. Use the statements below to edit the pictogram.

Number of Children in each After School Club for September

Football	●●●●●●●●●●●●●●●
Gardening	●●●●●●●●●
Arts and Crafts	●●●●●●●●●●●
Cooking	●●●●●●●
Games	●●●●●●●●●●●
Dance	●●●●●●●●●

● = 1 person

Four more people joined Dance.

Four people left Football to join other clubs.

Four people moved from Gardening to Games.

One person decided to leave Games to join Football.

Some new people joined so that Dance now has three times the number of children as Gardening.

Compare your new pictogram with your partner's. What do you notice?

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Discussion Problems – Interpret Pictograms (1-1) – Year 2

Interpret Pictograms (1-1)

1. Three friends are discussing the pictogram below.

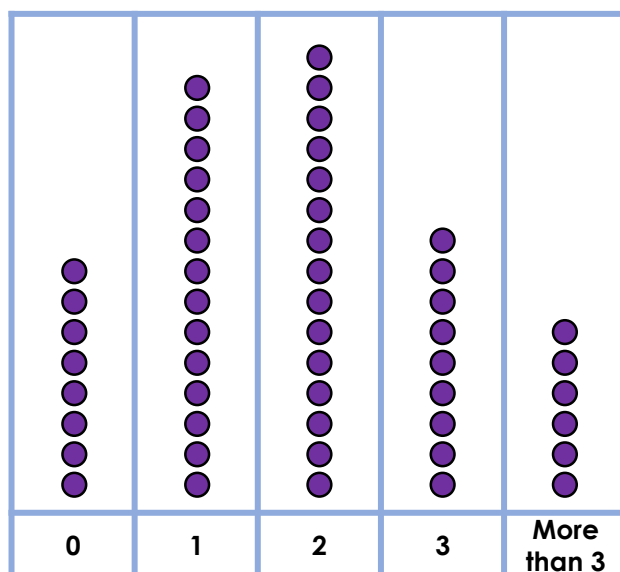**Jordan:** Having a pet is more popular than not having a pet.

Ellie: There are 25 people that have fewer than 2 pets.

Lisa: There are 6 people that have at least 24 pets between them.

Number of Pets at Home

0	1	2	3	More than 3

= 1 person

Use the pictogram to help you investigate whose statements are correct.
Jordan and Lisa are correct.
If a fourth friend joins and makes a statement that is also correct, what could it be?
Various answers, for example: The total number of people that have 0 or 1 pet is less than the total number of people that have 2 or 3 pets.

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2. Use the statements below to edit the pictogram.
Various answers, for example:

Number of Children in each After School Club for September

Football	● ● ● ● ● ● ● ● ● ● ●
Gardening	● ● ● ●
Arts and Crafts	● ● ● ● ● ● ● ● ● ● ● ● ●
Cooking	● ● ● ● ● ● ● ●
Games	● ● ● ● ● ● ● ● ● ● ● ● ●
Dance	● ● ● ● ● ● ● ● ● ● ● ● ● ●

● = 1 person

Four more people joined Dance.

Four people left Football to join other clubs.

Four people moved from Gardening to Games.

One person decided to leave Games to join Football.

Some new people joined so that Dance now has three times the number of children as Gardening.

Compare your new pictogram with your partner's. What do you notice?
Various answers, for example: The most popular club is not the same on both.

DP

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Discussion Problems – Interpret Pictograms (1-1) ANSWERS