

INTERPRET PICTURE GRAPHS USING THE LANGUAGE OF CHANCE.

INVESTIGATIONS OVERVIEW PAGE

THIS PAGE IS A SUMMARY OF THE INVESTIGATIONS THAT STUDENTS MAY ENGAGE IN TO DEEPEN THEIR RELATIONAL UNDERSTANDING.
INVESTIGATIONS WITH INSTRUCTIONS TO STUDENTS FOLLOW ON SUBSEQUENT PAGES.

- In pairs, children ask and answer one another's questions using chance language about the data in the picture graph created below*, for example,
 - Which ... is most popular? How do you know?
 - Which ... is the least popular? How do you know?
 - Which column of pictures is the shortest?
 - Which column of pictures is the tallest?
 - Which ... is more popular than ...?
 - Which ... is less popular than ...?
 - What ... is it possible to find on this picture graph?
 - What ... is it impossible to find on this picture graph?
 - How many people like ... best?
 - What is the chance that we will find a child in this picture graph who likes ... best?
 - Is it likely that will find a child in this graph who likes ... best?
 - Is it unlikely that we will find a child in this graph who likes ...?
 - Is it impossible that we will find a child in this graph who likes ...?

Reflection: How can we ask questions about data using the language of chance?

* See below for creating picture graphs.

- Distribute equal sized pieces of paper to children. Children draw a picture of themselves on the paper. Ask questions and allow children to place their picture in columns according to their response. Questions could include:
 - How did you come to school today?
 - What fruit do you have in your lunch box?
 - How many brothers and sisters do you have?
 - What sport do you play?

Reflection: How can we describe data using chance words?

Interpret Picture Graphs using the Language of Chance

Sit with a friend.

Have a picture graph.

Ask and answer one another's questions using chance language about the data in the picture graph, for example,

- Which ... is most popular? How do you know?
- Which ... is the least popular? How do you know?
- Which column of pictures is the shortest?
- Which column of pictures is the shortest?
- Which ... is more popular than ...?
- Which ... is less popular than ...?
- What ... is it possible to find on this picture graph?
- What ... is it impossible to find on this picture graph?
- How many people like ... best?
- What is the chance that we will find a child in this picture graph who likes ... best?
- Is it likely that will find a child in this graph who likes ... best?
- Is it unlikely that we will find a child in this graph who likes ...?
- Is it impossible that we will find a child in this graph who likes ...?

Reflection: How can we ask questions about data using the language of chance?

Interpret Picture Graphs using the Language of Chance

Have a piece of paper the same size as the other children.

Draw a picture of yourself on the paper.

Answer questions by placing your picture in columns.

Questions could include:

- How did you come to school today?
- What fruit do you have in your lunch box?
- How many brothers and sisters do you have?
- What sport do you play?

Reflection: How can we describe data using chance words?