

## 1

# Constructing a Pictograph

## You will need

- a pictograph frame

Title:



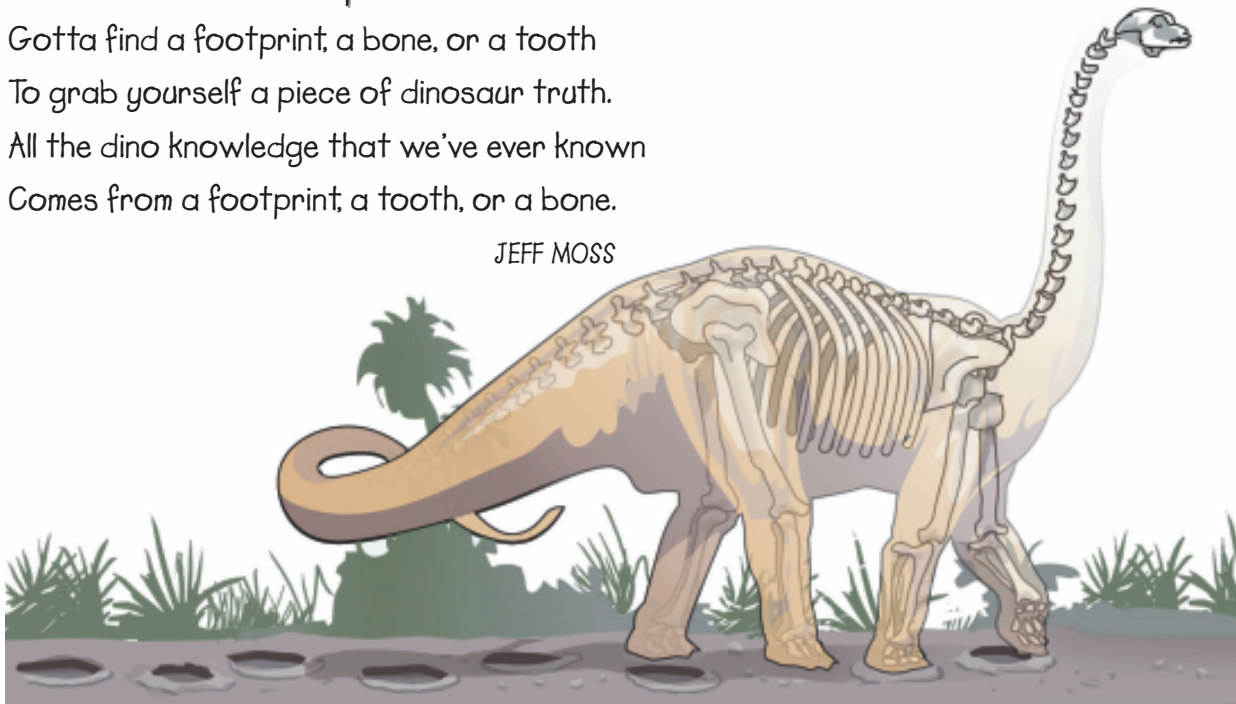
- graphing software
- a computer

**Goal** Construct and interpret pictographs.

### Gotta Find a Footprint

Gotta find a footprint, a bone, or a tooth  
To grab yourself a piece of dinosaur truth.  
All the dino knowledge that we've ever known  
Comes from a footprint, a tooth, or a bone.

JEFF MOSS



### Which Dinosaur Do You Like Best?

Dinosaur	Number of people
tyrannosaurus rex	60
triceratops	45
brachiosaurus	25
velociraptor	50
other	20



### Pedro's Data

I asked people which dinosaur they like best. I will make a pictograph to display the data I collected.

**? How should Pedro display his data in a pictograph?**

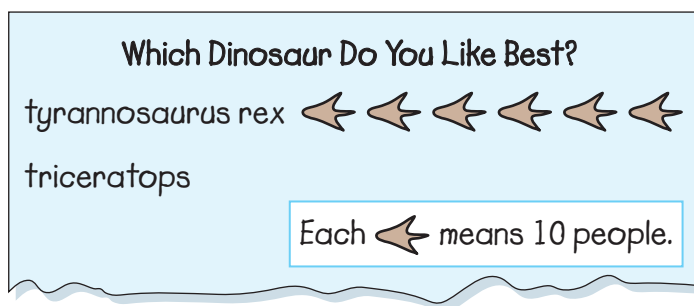


## Pedro's Pictograph

I chose a footprint symbol to represent the number of people who like each dinosaur.

My **scale** is "Each  means 10 people."

I drew 6 footprints for tyrannosaurus rex, but I don't know how many to draw for triceratops.



- A. How many symbols should triceratops have? Explain.
- B. Is a footprint the best symbol to use or would a bone, a tooth, or another symbol be better? Explain.
- C. Make a pictograph to show the dinosaur data. Use a different scale than Pedro. Write the title and show the scale you used.

## Reflecting

1. What scale did you use for your pictograph? Explain your thinking.
2. How many symbols did you use for brachiosaurus? Why?
3. What do you need to know about the data before you can choose a scale for a pictograph?

## Checking

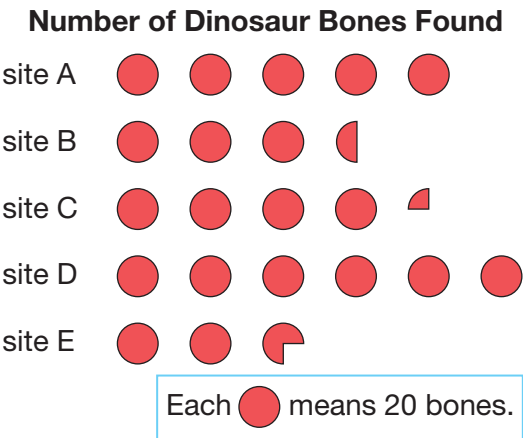
4. The chart shows some data for you to display in a pictograph.
- a) What symbol will you use to represent the number of visitors? Why?
  - b) How many people will 1 symbol represent on your pictograph? Explain your choice of scale.
  - c) Make the pictograph. Include the title and the scale.

**Visitors to the Dinosaur Show**

Day	Number of visitors
Monday	150
Tuesday	300
Wednesday	200
Thursday	225
Friday	450

## Practising

5. Dinosaur bones were found at many sites. Use this pictograph to answer the questions.



- a) Which site had the greatest number of bones? Which site had the least number of bones?
- b) Make a chart to show how many bones were found at each site.
- c) How many bones were found at site E? Explain how you know.
- d) Why do you think the person who made this graph used a circle symbol instead of a bone?
- e) Make a new pictograph of the data that uses a different scale.