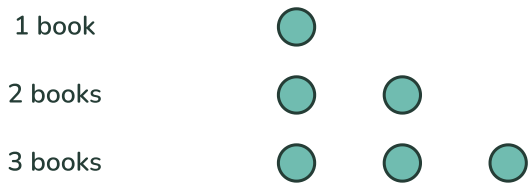
Read and compare graphs

NAME	DATE

1 **Activity · Work with your teacher**

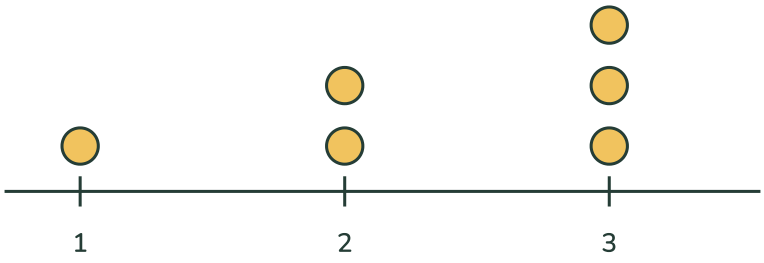
Look at the same data in three graphs. Tell how each graph shows the answers.

Books read by six children: pictograph



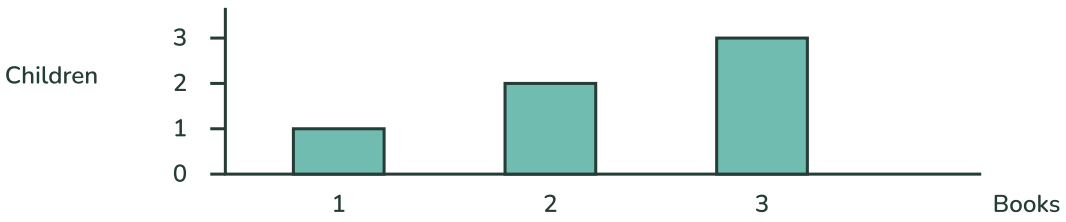
Key: one dot = one child

Books read by six children: dot plot



Books read (one dot = one child)

Books read by six children: bar graph



Read and compare graphs

1. Relates the same observations/counts across all three representations, and accurately describes the requested features of each. Selecting a supplied statement does not independently supply the child's explanation.

Teacher procedure · Question 1

1. Use the same small data set in a pictograph, a bar graph and a dot plot. State what the data represent; do not mix category counts with a different set of numerical measurements. For example record how many books each of six participants read: 1, 2, 2, 3, 3, 3. A frequency bar graph can use 1, 2 and 3 books as categories.
2. Ask what all three representations show about those same six responses. Record same-data.
3. Ask the child to explain the pictograph pictures/key, the dot-plot positions/stacked marks, and the bar-graph axes/labels/scale. Record each actual explanation independently.
4. Use existing generated graph examples or teacher-prepared graphs with matching data. Do not credit constructing these graphs or collecting their data from this discussion alone.

Record: Record the actual materials, response, help and observation date for each action.

Read and compare graphs

Own explanation: same-data

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

Own explanation: pictograph

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

Own explanation: dotplot

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

Own explanation: bargraph

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

Relates the same observations/counts across all three representations, and accurately describes the requested features of each. Selecting a supplied statement does not independently supply the child's explanation.