Lesson 5: Represent Data in Scaled Bar Graphs

Standards Alignments

Addressing   3.MD.B, 3.MD.B.3
Building Towards   3.MD.B.3

Teacher-facing Learning Goals

- Represent data using scaled bar graphs.

Student-facing Learning Goals

- Let's make a scaled bar graph.

Lesson Purpose

The purpose of this lesson is for students to create a scaled bar graph.

In a previous lesson, students collected categorical class data and learned how to create a scaled picture graph. Students now make connections between scaled picture graphs and scaled bar graphs, and expand the idea of a scale that is more than one to bar graphs. In this lesson students choose a scale of 2 or 5 for their bar graph.

Math Community

Tell students that, at the end of the lesson, they will be asked to identify specific examples of norms they experienced as they did math.

Access for:

♿ Students with Disabilities

- Engagement (Activity 2)

🌐 English Learners

- MLR7 (Activity 2)

Instructional Routines

Number Talk (Warm-up)

Materials to Gather

- Materials from a previous lesson: Activity 2

Lesson Timeline

Warm-up	10 min

Teacher Reflection Question

Based on students' prior work with scaled picture graphs, what strategy did you anticipate

Activity 1	10 min
Activity 2	25 min
Lesson Synthesis	10 min
Cool-down	5 min

today? What strategy did you not anticipate?

Cool-down (to be completed at the end of the lesson)   🕐   5 min

Complete a Scaled Bar Graph

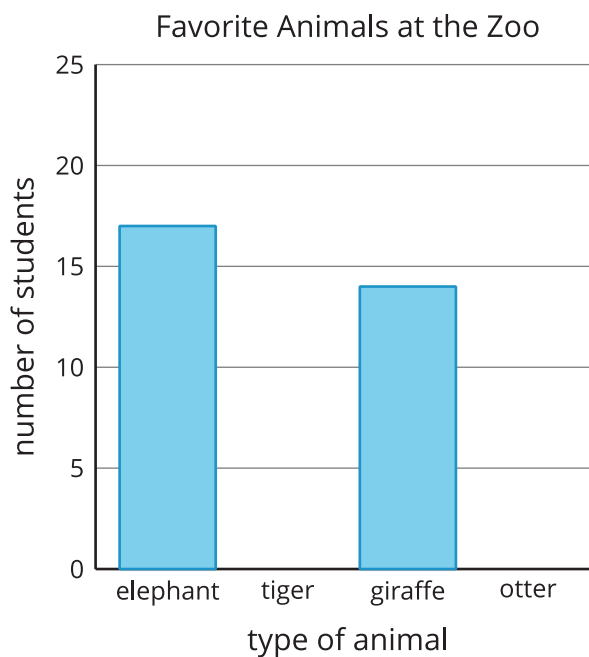## Standards Alignments

Addressing   3.MD.B.3

Student-facing Task Statement

Students visiting the zoo were asked, "What is your favorite animal at the zoo?"

Their responses are shown in this table:

animal	number of students
elephant	17
tiger	10
giraffe	14
otter	4

Use the data in the table to complete the scaled bar graph.

Favorite Animals at the Zoo

Student Responses

Student bar graphs should show 10 students chose tigers and 4 students chose otters.

Favorite Animals at the Zoo

A bar graph titled "Favorite Animals at the Zoo" with "number of students" on the vertical axis (scaled 0 to 25) and "type of animal" on the horizontal axis. The bars show: elephant 17, tiger 10, giraffe 14, otter 4.