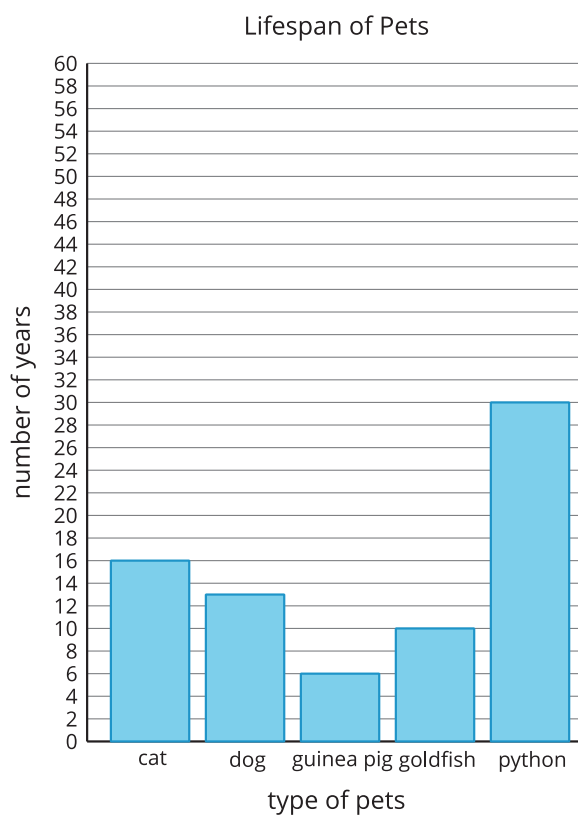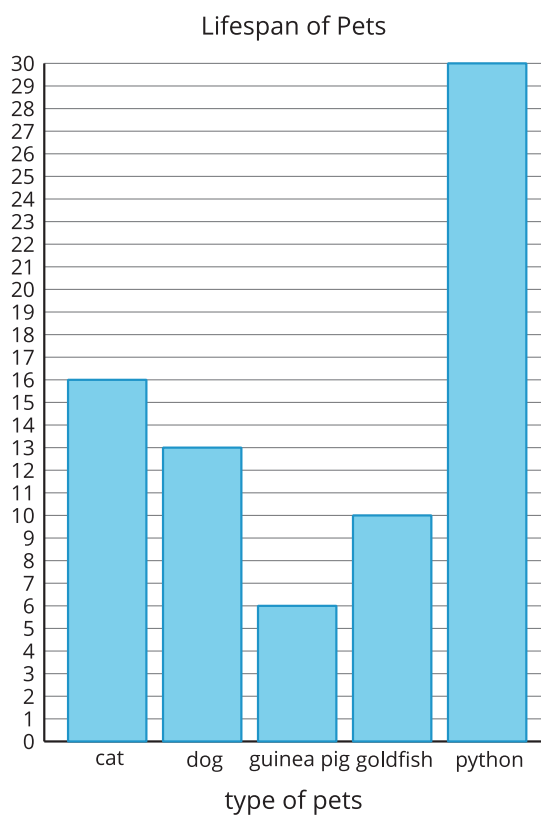# Lesson 6: Choose a Scale
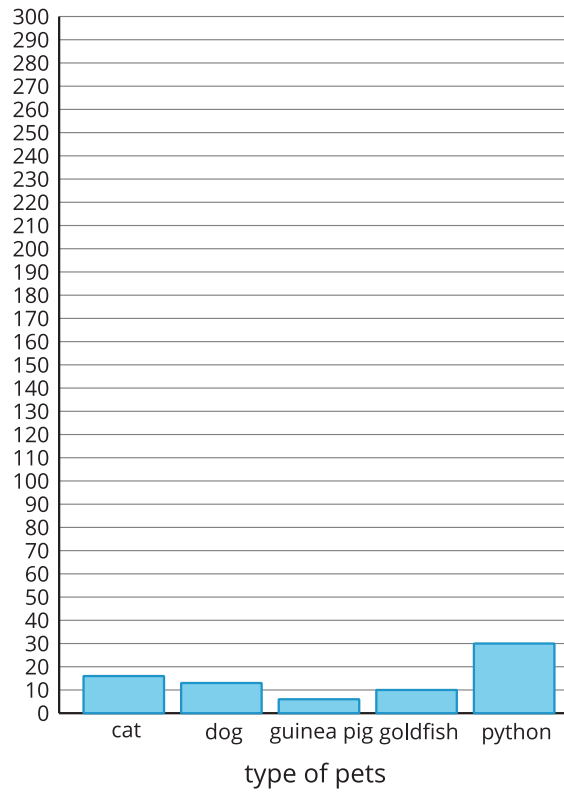
- Let's choose a scale for our bar graph.

Warm-up: Notice and Wonder: Bar Graph Scales

What do you notice? What do you wonder?

Lifespan of Pets

Lifespan of Pets

Lifespan of Pets

A bar graph titled "Lifespan of Pets" with the vertical axis marked from 0 to 300 in increments of 10, and the horizontal axis labeled "type of pets" with categories: cat, dog, guinea pig, goldfish, python. The bars show approximately: cat 16, dog 14, guinea pig 6, goldfish 11, python 30.
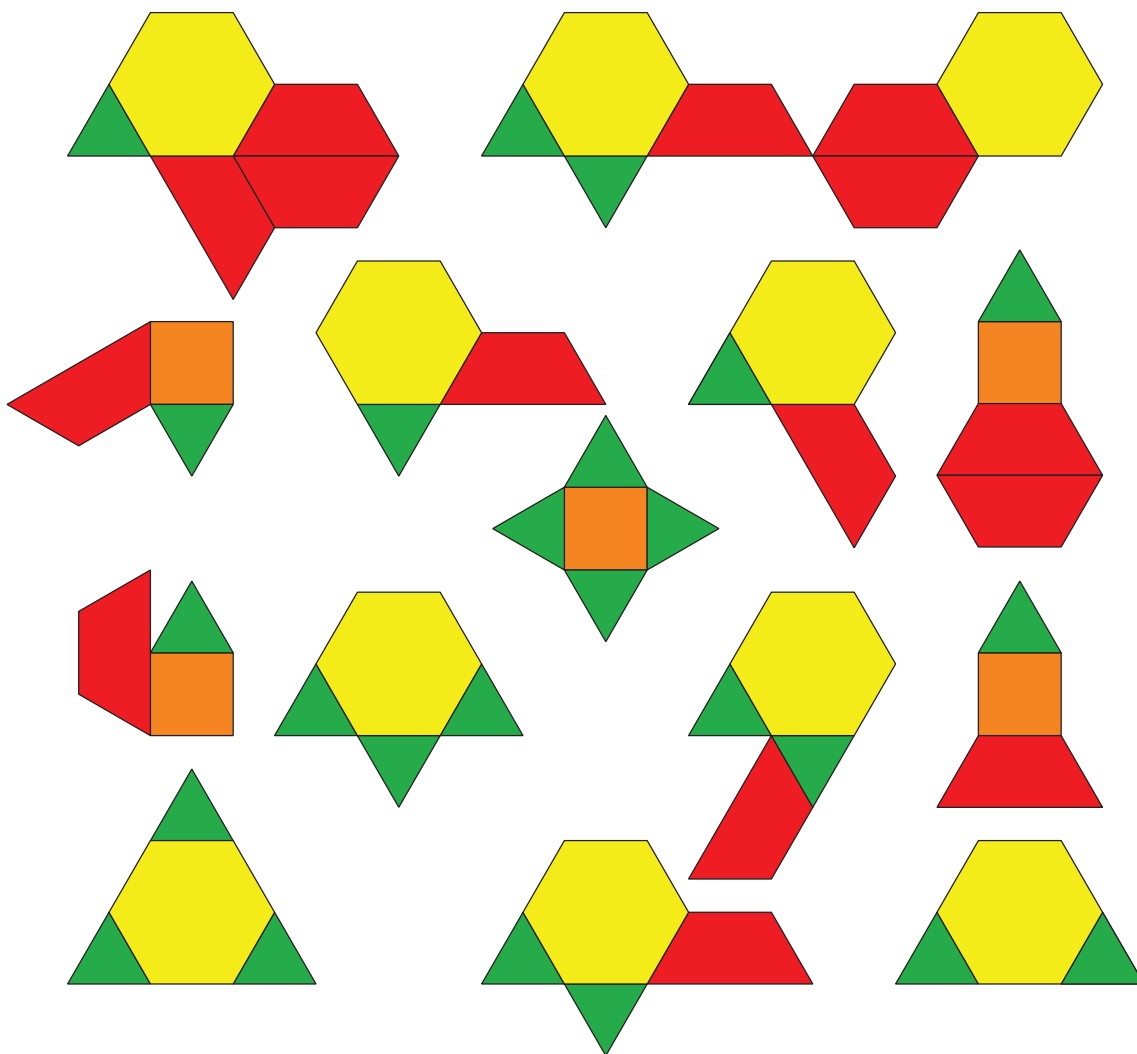
6.1: Represent Pattern Blocks

Here is a collection of pattern blocks.

Mai, Noah, and Priya want to make a bar graph to represent the number of triangles, squares, trapezoids, and hexagons in the collection.
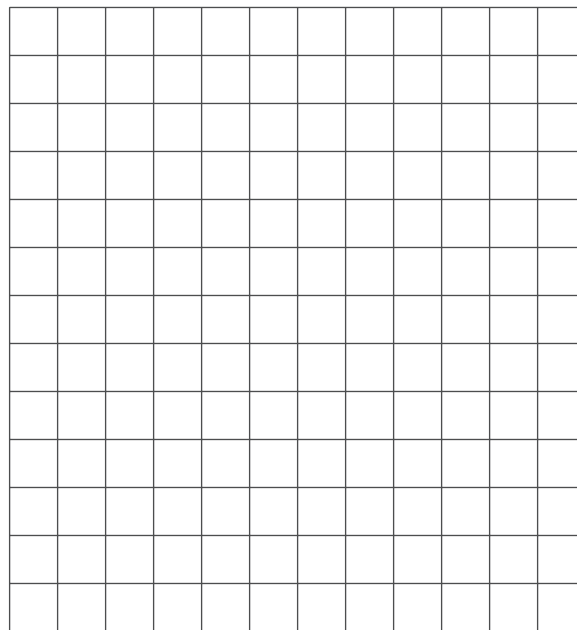
- Mai says the scale of the bar graph should be 2.

- Noah says the scale of the bar graph should be 5.

- Priya says the scale of the bar graph should be 10.

1. Who do you agree with? Explain your reasoning.

   _____

   _____

2. Use the scale that you chose to create a scaled bar graph to represent the collection of pattern blocks.

6.2: Represent More Data in a Scaled Bar Graph

All the third-grade students at school were asked, "What is your favorite time of the year?" Their responses are shown in this table:

favorite time of the year	number of students
winter	24
spring	13
summer	40
fall	22

Use the data from this table to create a scaled bar graph.