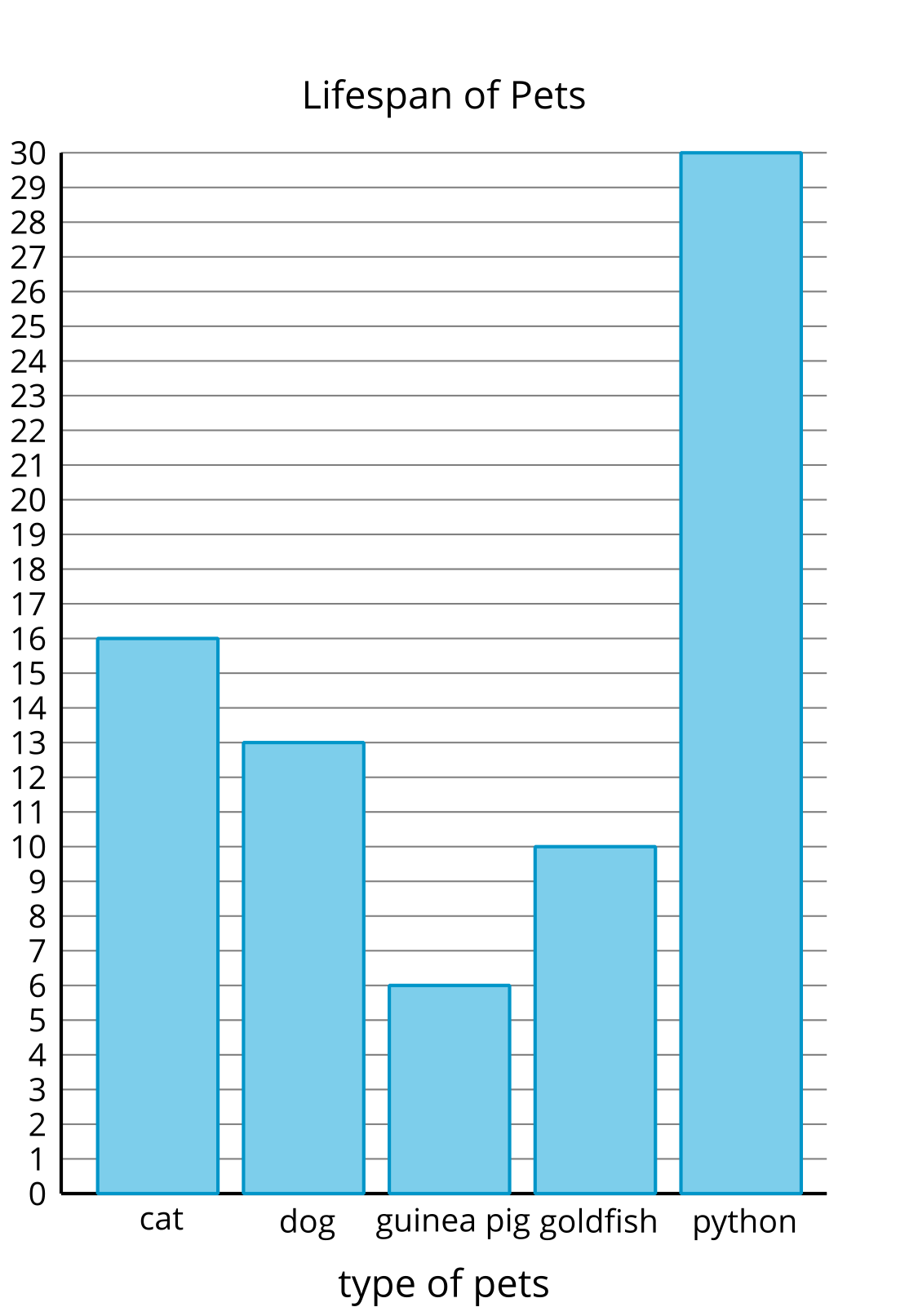
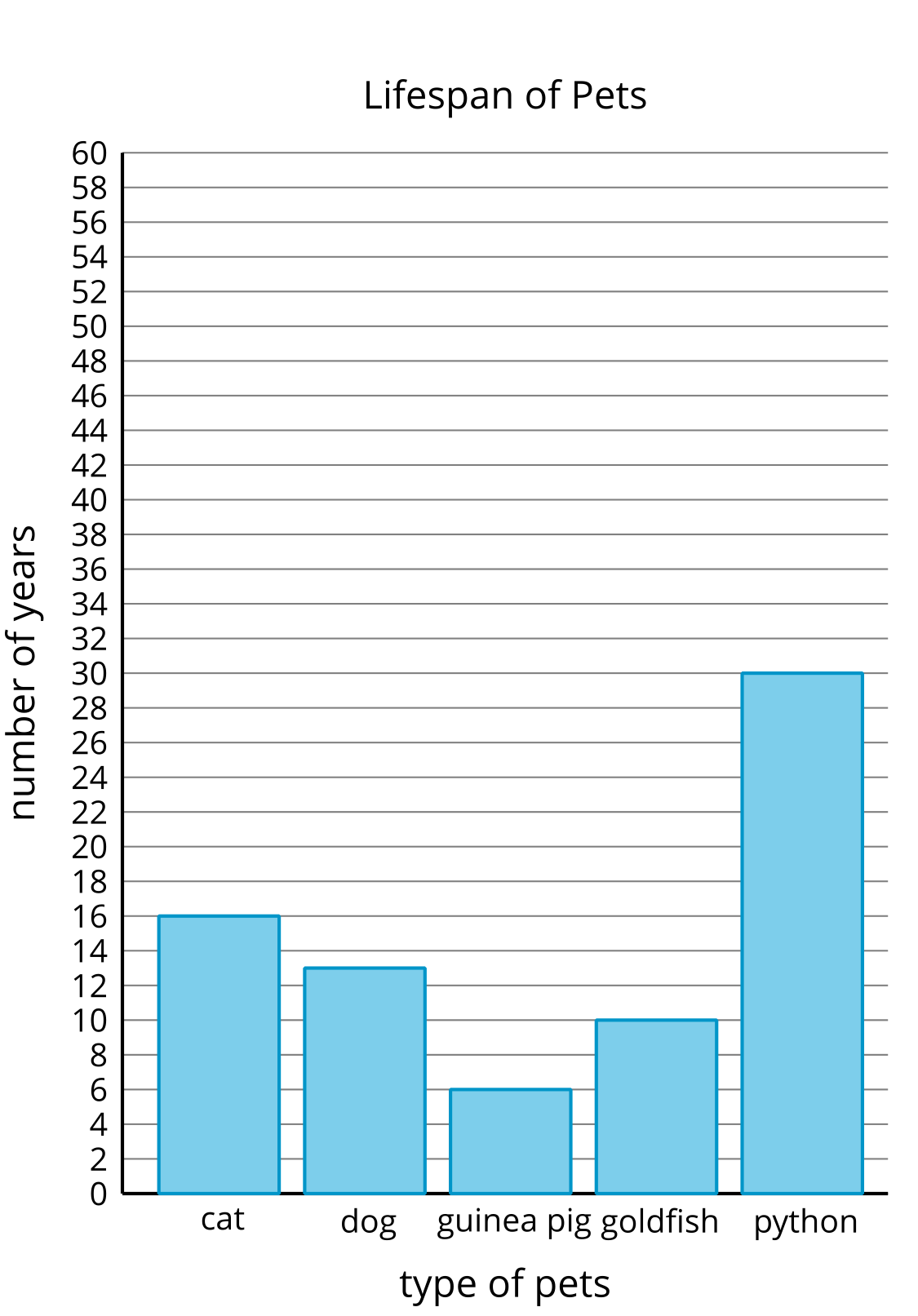
## Lesson 6: Choose a Scale

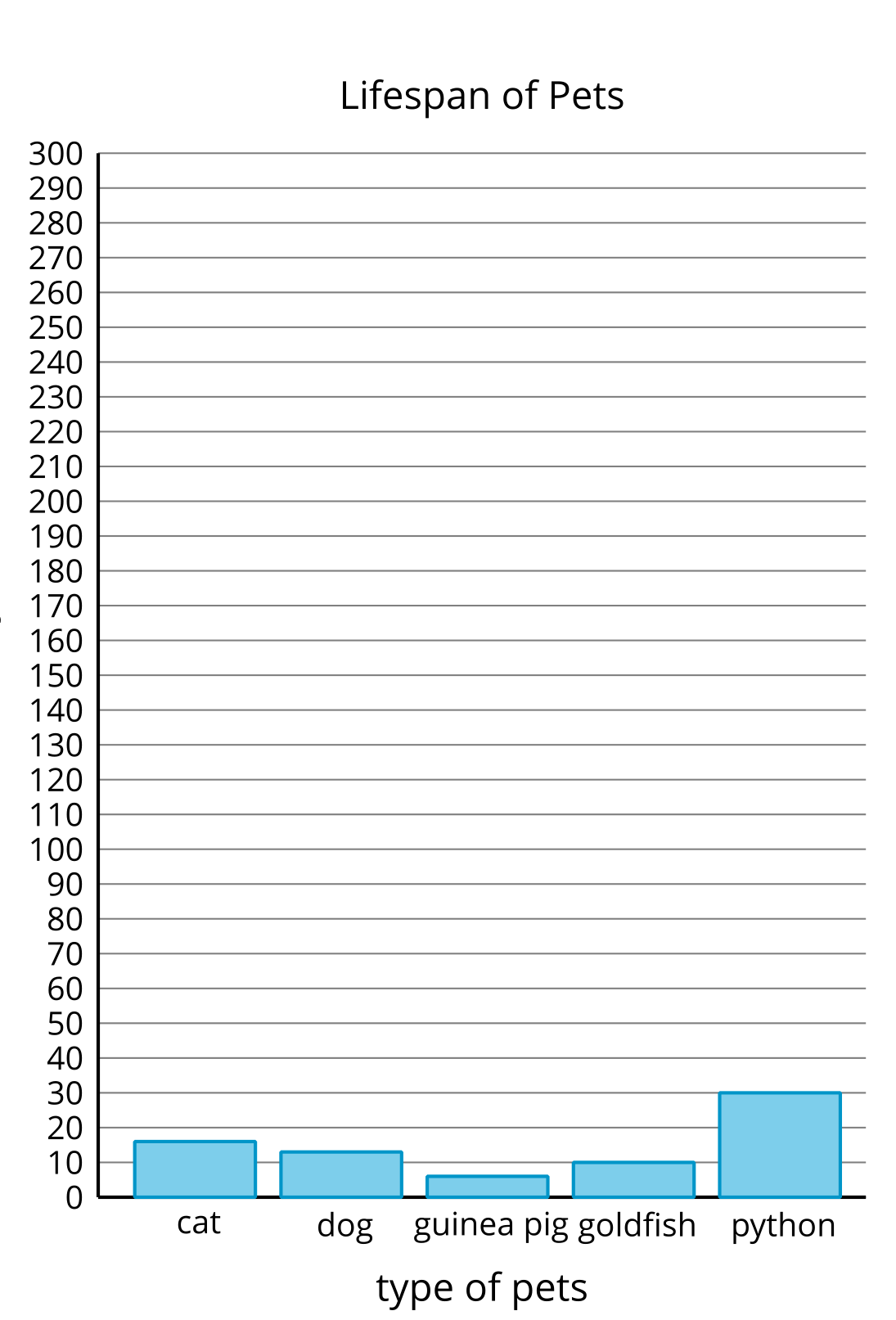
* Let’s choose a scale for our bar graph.

### Warm-up: Notice and Wonder: Bar Graph Scales

What do you notice? What do you wonder?

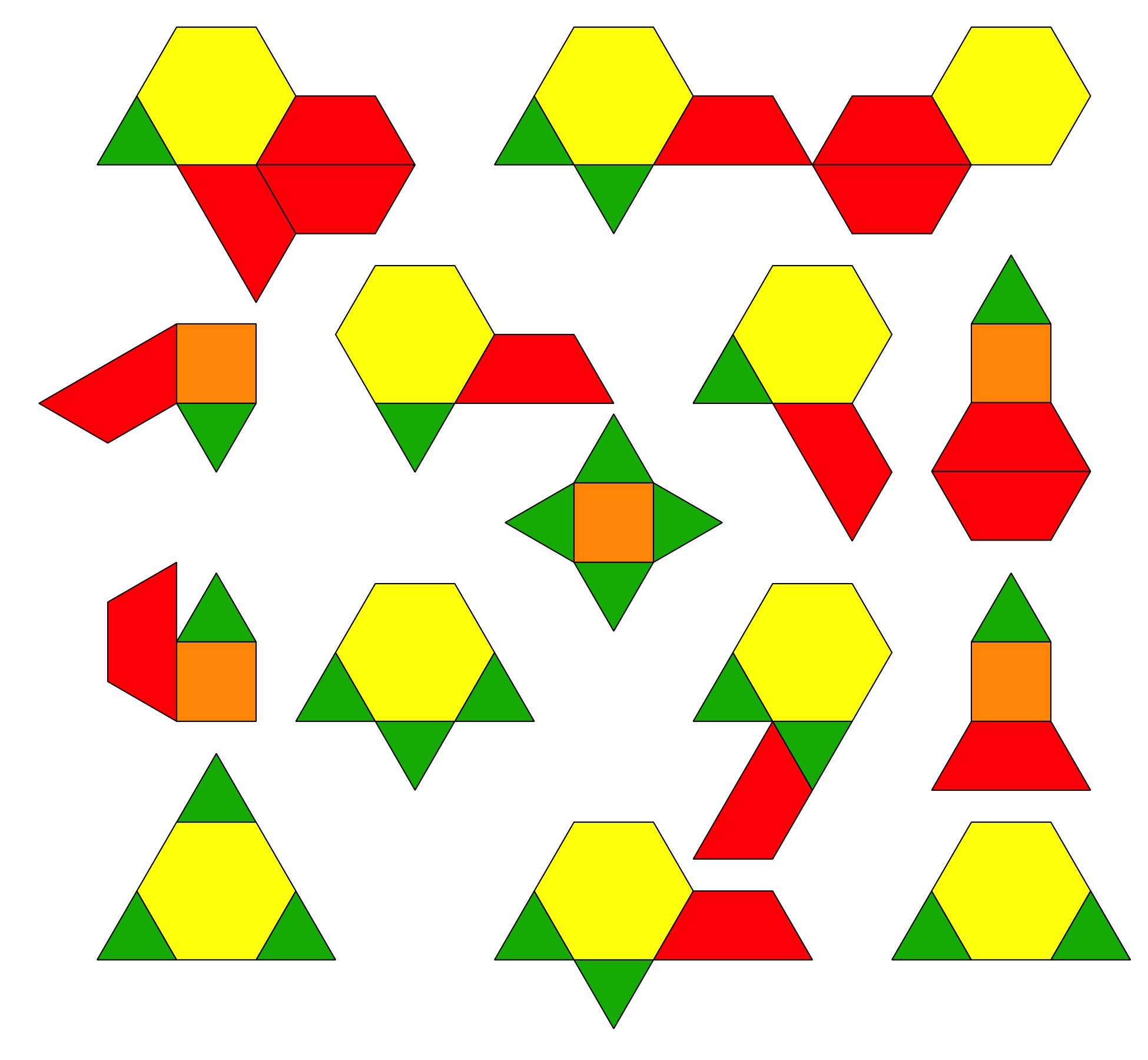






### 6.1: Represent Pattern Blocks

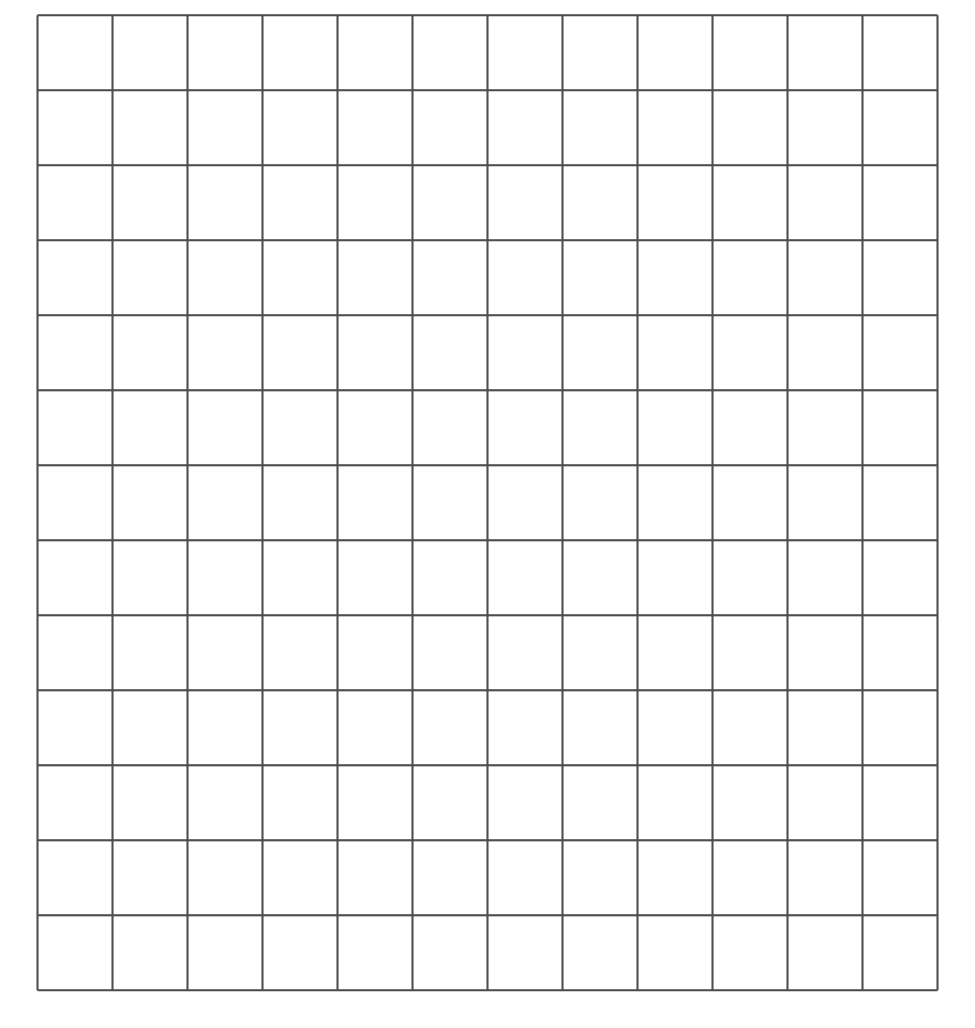
Here is a collection of pattern blocks.



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.

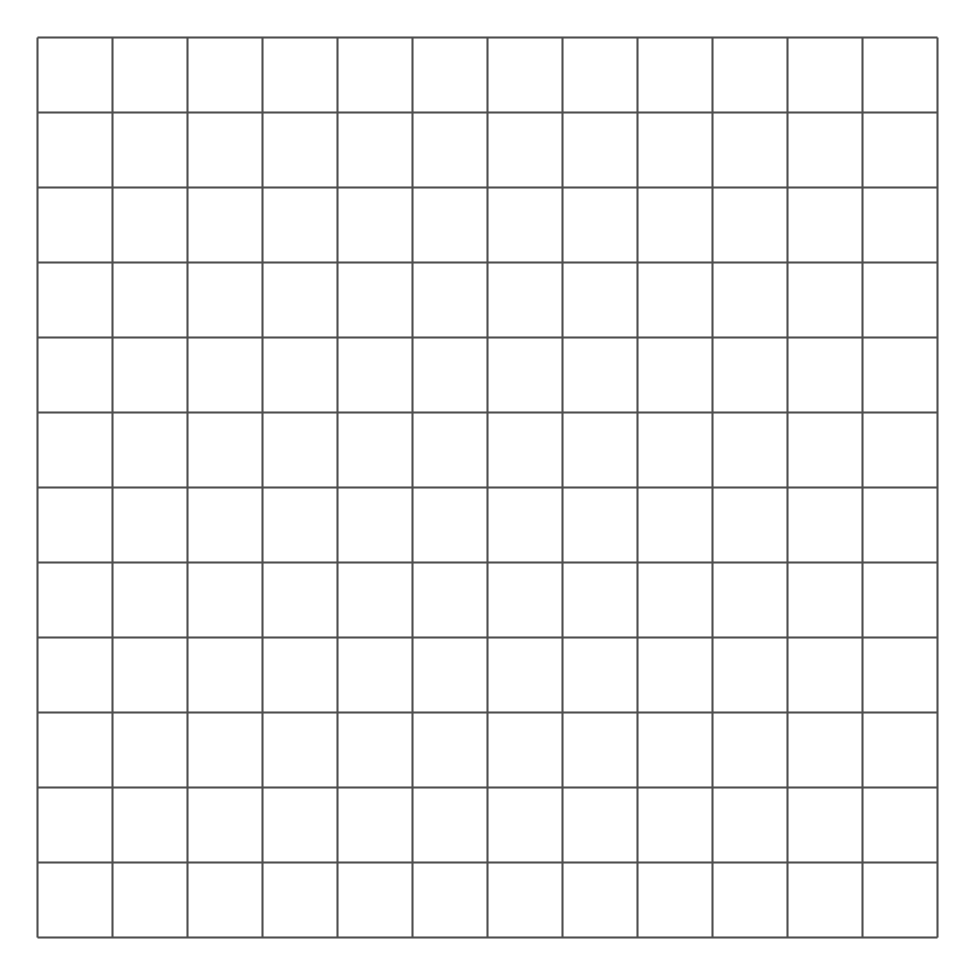
* 

### 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.





© CC BY 2021 Illustrative Mathematics®