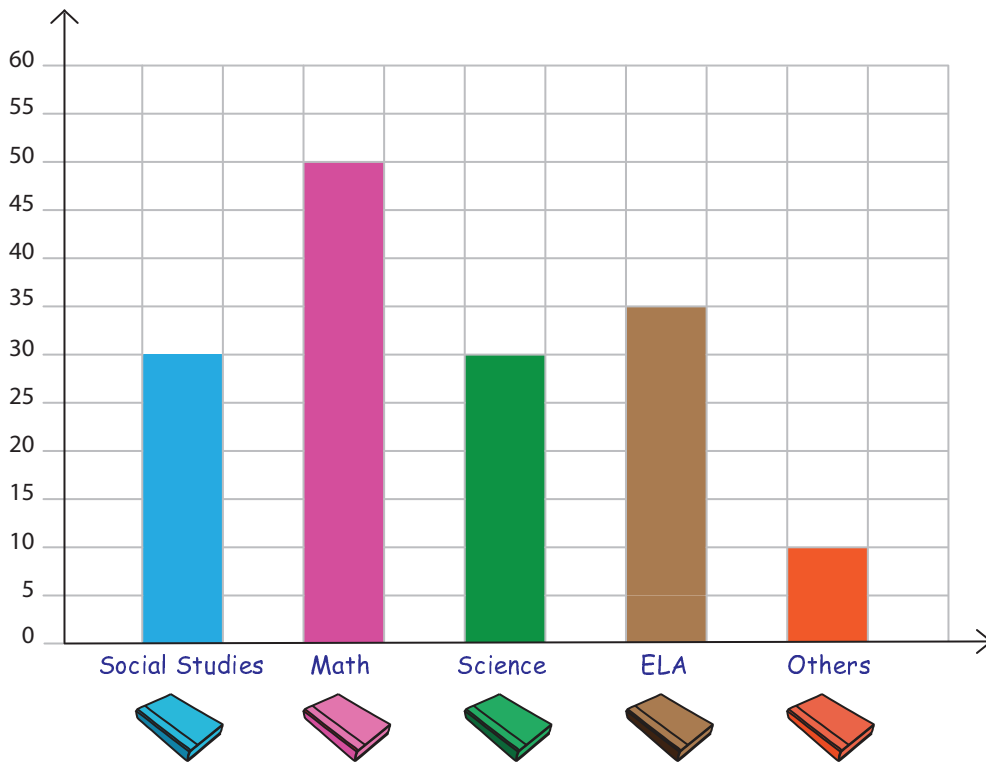# 3rd Grade

# Data and Graphs
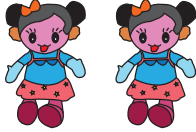


| | |
|---|---|
| 60 | |
| 55 | |
| 50 | |
| 45 | |
| 40 | |
| 35 | |
| 30 | |
| 25 | |
| 20 | |
| 15 | |
| 10 | |
| 5 | |
| 0 | |

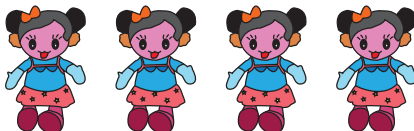Social Studies    Math    Science    ELA    Others

# Workbook 3

# Pictograph - Doll Making

Helen has a hobby of making dolls. The pictograph shows the number of dolls she made each week. Use the information from the graph to answer the questions.

| Doll Making | |
|---|---|
| **Week** | **Number of Dolls** |
| Week 1 | 🎎🎎 |
| Week 2 | 🎎🎎🎎🎎🎎 |
| Week 3 | 🎎🎎🎎🎎🎎🎎🎎 |
| Week 4 | 🎎🎎🎎🎎 |

**Key**

🎎 = 10 Dolls

1) How many dolls did Helen make in week 2?  _____

2) In which week, Helen made 40 dolls?  _____

3) In which week, Helen made fewest dolls?  _____

4) How many fewer dolls did she make in week 4 than week 3?  _____

5) How many dolls did she make altogether in four weeks?  _____

# Pictograph - Banana Eating

Amy, Mike, Julie, Tony and Ellen took part in banana eating competition. The tally chart shows the number of bananas ate by each of them. Using the key, draw the pictograph to show the information.

| Banana Eating | |
|---|---|
| **Name** | **Number of Bananas** |
| Amy | 卌 卌 卌 |
| Mike | 卌 IIII |
| Julie | 卌 卌 卌 III |
| Tony | 卌 I |
| Ellen | 卌 IIII |

| Banana Eating Graph | |
|---|---|
| **Name** | **Number of Bananas** |
| Amy | |
| Mike | |
| Julie | |
| Tony | |
| Ellen | |

**Key**
☺ = 3 Bananas

# Pictograph - Art Supplies
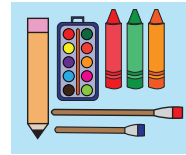
Using the key, draw the pictograph to show the number of items in each kind.

| Art Supplies Graph | |
|---|---|
| **Item** | **Number of Items** |
| (crayon box) | |
| (paint jar) | |
| (paint brush) | |
| (watercolor palette) | |

**Key**

☺ = 2 Items

# Pictograph - Flower Plucking

Sylvia has a habit of plucking flowers from her aunt's garden. The data shows the number of flowers she plucked from Monday through Thursday. Draw pictograph to represent the data and answer the questions.

| Monday | Tuesday | Wednesday | Thursday |
|--------|---------|-----------|----------|
| 21 | 49 | 14 | 35 |

| Flower Plucking ||
|-----------|-------------------------|
| **Day** | **Number of Flowers** |
| Monday | |
| Tuesday | |
| Wednesday | |
| Thursday | |

**Key**
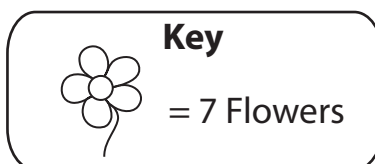
= 7 Flowers

1) How many flowers did Sylvia pluck on Monday? _____

2) How many more flowers did Sylvia pluck on Tuesday than Wednesday? _____

3) Were more flowers plucked on Wednesday or Thursday? _____

4) How many did Sylvia pluck in all? _____

# Bar Graph - Bird Sanctuary

Mr. Brandon, a staff of Exotic Bird Sanctuary, tracks the number of birds migrating to the sanctuary during Spring. He records the information in a bar graph. Use the graph to answer the questions.

**Bird Sanctuary**
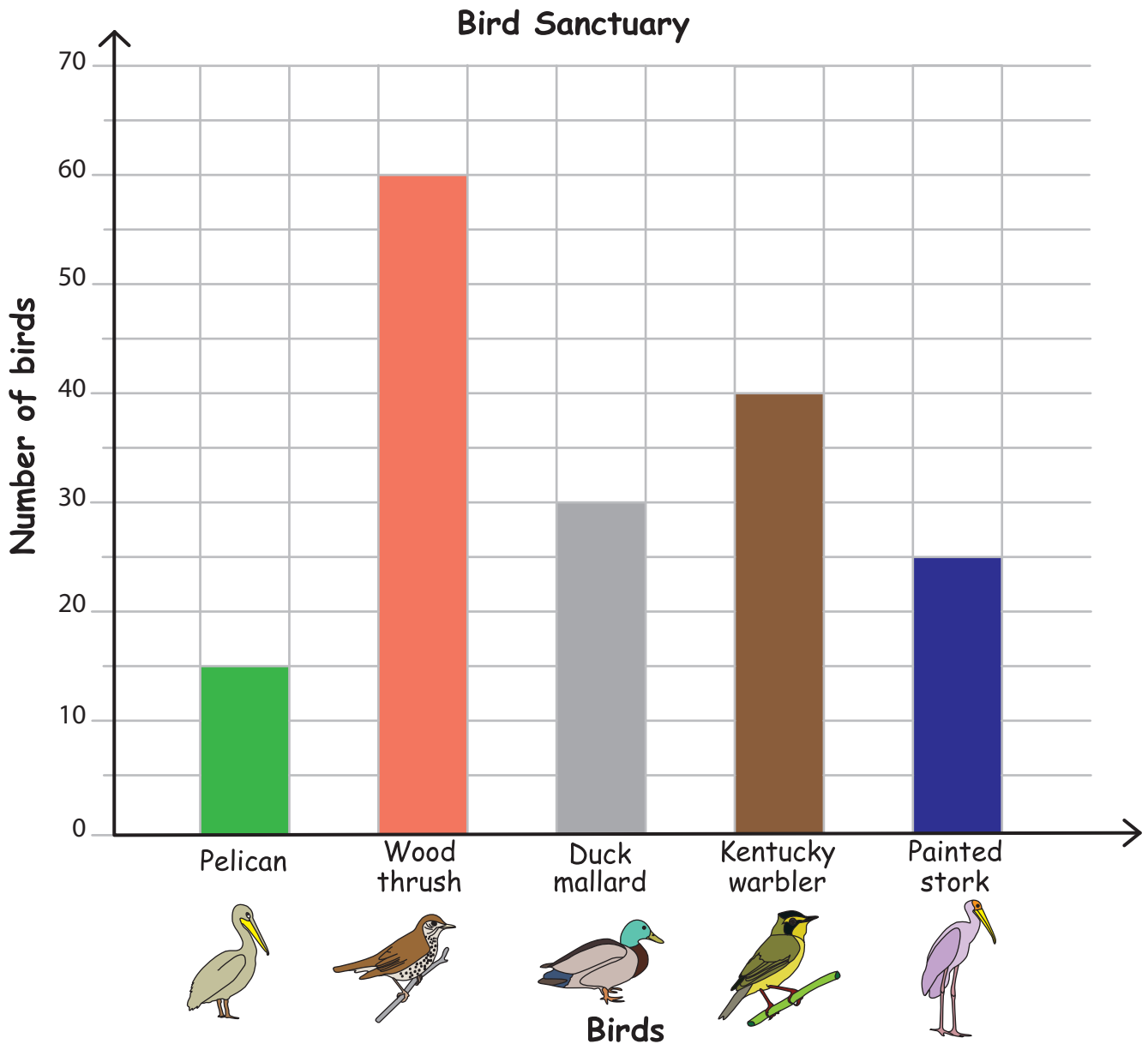


1) Write a number at the end of each bar to display the number of birds of each kind.

2) What is represented along the x-axis of the graph? _____
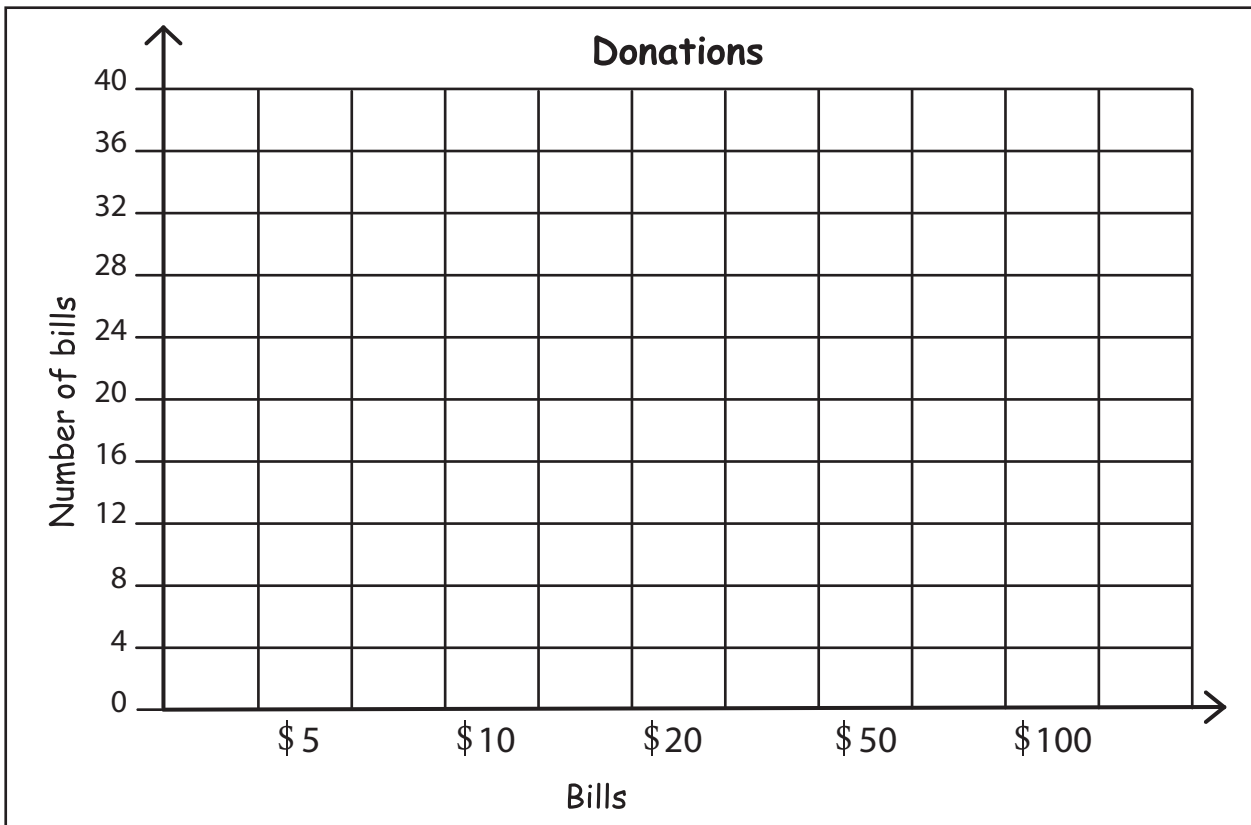
3) Which bird counts between 10 and 20? _____

4) Which is more, Wood thrush or Kentucky warbler? _____

5) If six Painted stork flew away, how many Painted stork would have left? _____

## Bar Graph - Donations

Students of Harvard Elementary School made some donations for charity. Mrs. Anne gathered a data on denomination of the bills. Draw a graph to represent the data and answer the questions.
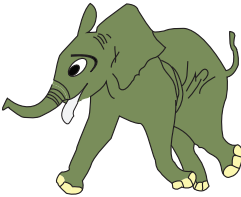
| $ 5 | $10 | $ 20 | $ 50 | $ 100 |
|------|------|------|------|------|
| 36 | 16 | 12 | 32 | 24 |

### Donations



Number of bills (y-axis): 0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40

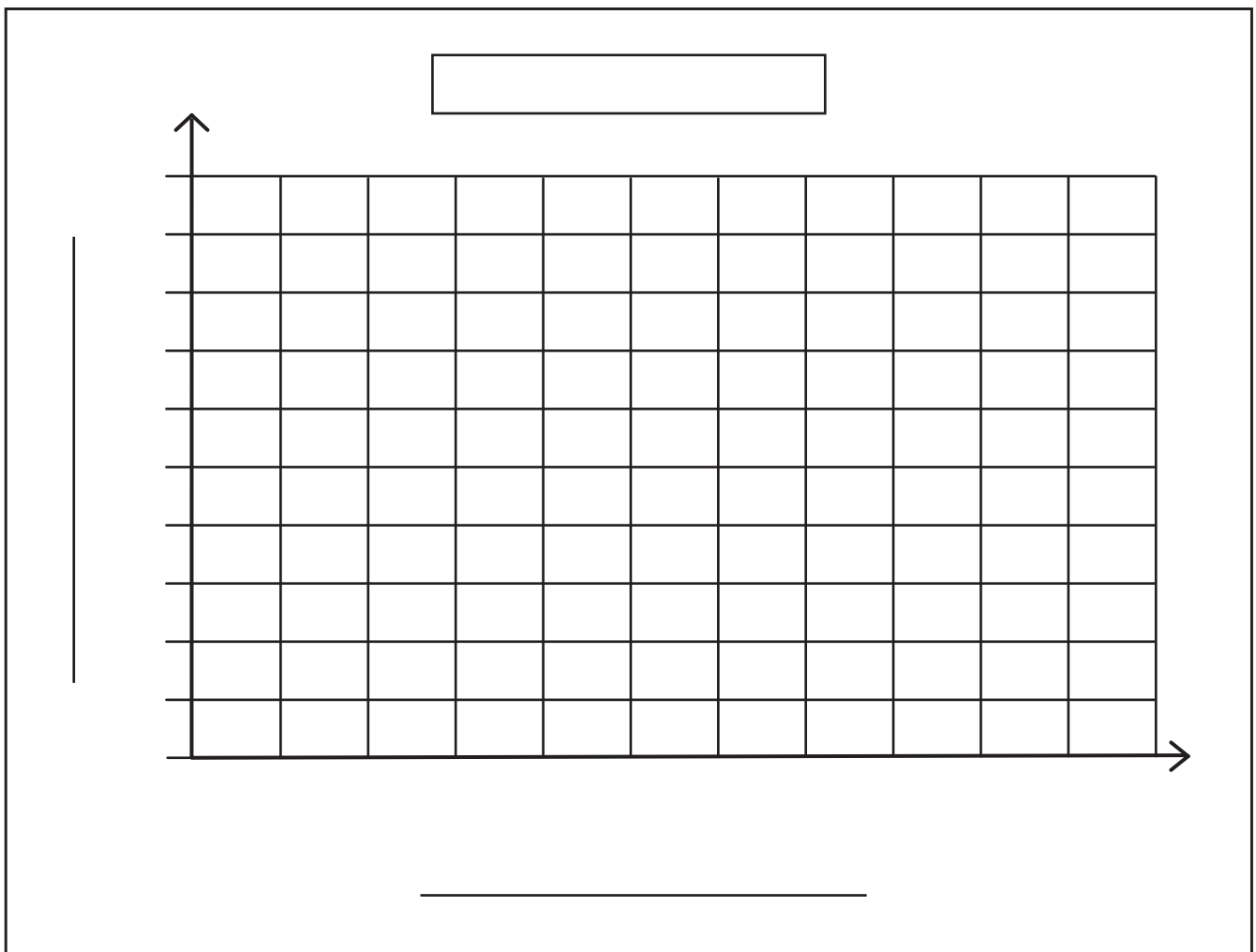Bills (x-axis): $ 5, $10, $20, $50, $100

1) How many fifty-dollar bills were collected? _____

2) Which bill is the least in the count? _____

3) How many more five-dollar bills are there than hundred-dollar bills? _____

4) Which denomination has the most? _____

## Bar Graph - Favorite Animals

Kevin's Animal Sanctuary conducted a survey among the students on their favorite animals and recorded the data. Using the data, write a title, label the axis, make appropriate scale and draw a bar graph.

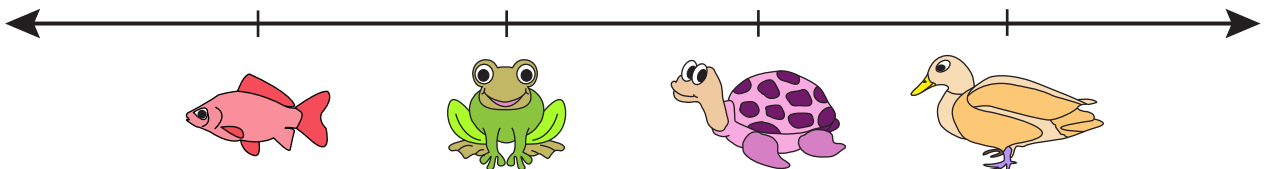| Lion | Elephant | Snake | Panda | Tiger |
|------|----------|-------|-------|-------|
| 45 | 35 | 25 | 10 | 40 |

# Making a Line Plot

Mary has a pond in her rock garden. She loves to take a dip and frolic around with the animals that live in and around the pond. Count the animals to make a line plot.
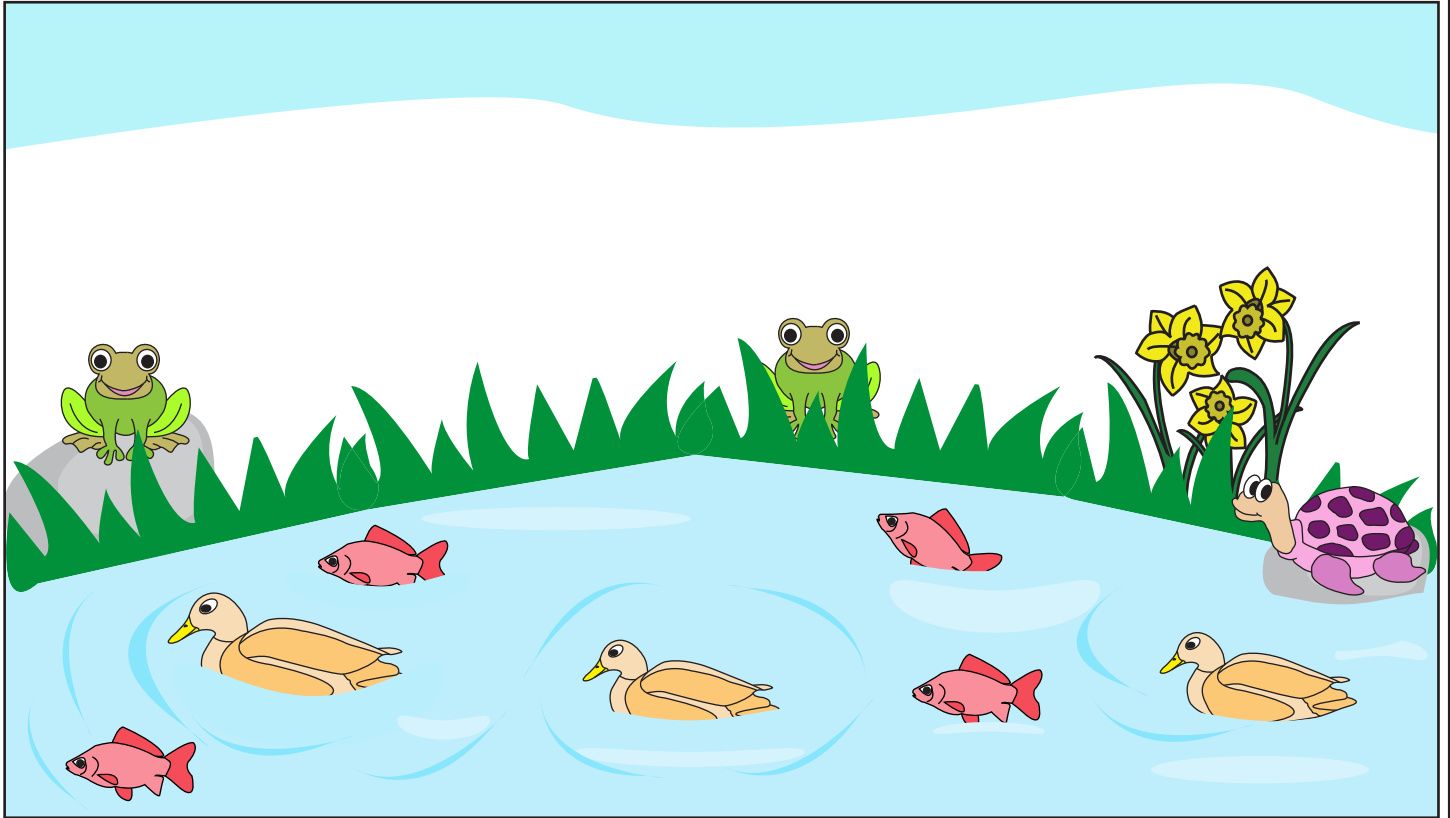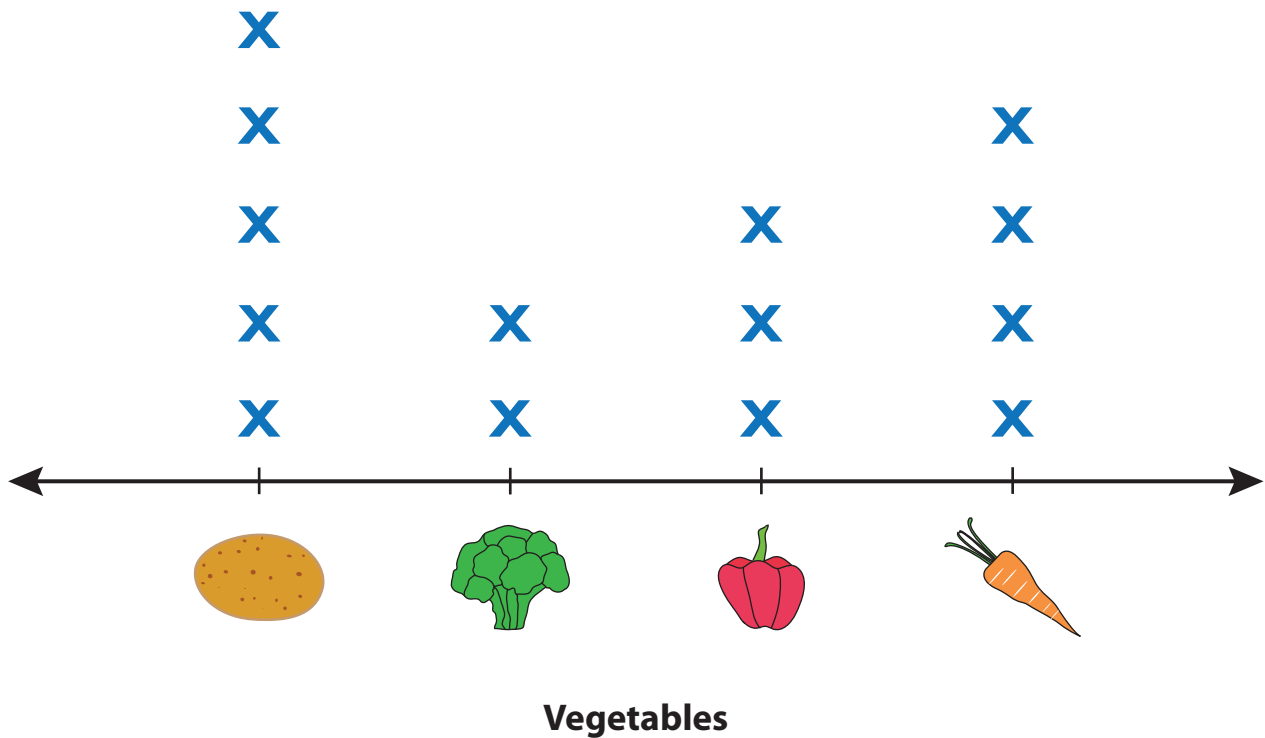


**Pond Life**

**Pond animals**

# Interpreting Line Plot

Judy was teaching her students the nutritional value of vegetables. She quizzed them about their favorite vegetables. She made a line plot based on the data collected. Read the line plot and answer the questions below.

**Favorite Vegetables**



**Vegetables**

1) How many students like broccoli? _____

2) Which is the most preferred vegetable? _____

3) How many students like bell pepper? _____

4) Which is the second-most preferred vegetable? _____

5) How many students were surveyed in total? _____