



Jungle Pie

Introduction

Objective:

- Students will use problem-solving skills to find percentages and create a pie graph (circle graph).

Academic Content Standards:

- ❖ National Council of Teachers of Mathematics: Number, Number Sense and Operations
 - *Students understand numbers, ways of representing numbers, relationships among numbers and number systems.*
 - *Students understand the meaning of operations and how they relate to one another.*
 - *Students compute fluently and make reasonable estimates.*
- ❖ Ohio Academic Content Standards for Mathematics: Number, Number Sense and Operations
 - *Students demonstrate number sense including an understanding of number systems and operations and how they relate to one another. Students compute fluently and make reasonable estimates using paper and pencil, technology-supported and mental methods.*
 - *Benchmarks: K, L and M (4th Grade)*
 - *Benchmark: I (5th and 6th Grades)*
- ❖ Ohio Academic Content Standards for Social Studies #6 Mathematical Processes Standard
 - *Embedded within the grade level indicators.*

Getting Started

Materials:

- Handout: “Jungle Pie” activity sheet
- Colored pencils
- Calculator (optional)

Vocabulary:

- Percent
- Pie / circle graph
- Calculate
- Legend / key

Technology:

As an extended activity, students enter data onto an electronic spreadsheet, e.g., Microsoft Excel, and use the software programming to convert the data into a circle graph.

Lesson

Orientation Activity:

Prior knowledge and skill is required of students in their knowing how to add, subtract, multiply and divide, and too, how to calculate percentages and use graphs.

Learning Activity:

This is an activity that can be completed as a class, in small groups or by individual students. The teacher will begin with a reading of the story on the *Jungle Pie* activity sheet. Students will fill in the

requested information and use that information to create a pie graph.

Evaluation and Follow-Up

Assessment Tools and Methods:

- Student ability to follow multi-step directions for completion of graph.
- Rubric scoring for construction of graph with required elements and math computation. The total number of animals is 42.
 - 5 toucans - 12%
 - 7 wolves - 17%
 - 10 panthers - 24%
 - 3 snakes - 7%

Interdisciplinary Connections:

- Science: Study of a “backyard” biome and graphing of the percentage of living organisms within it.



Jungle Pie Activity Sheet

Directions: Part I

Read the story below. Use the information and context clues to answer the questions that follow.

After reading The Jungle Book by Rudyard Kipling, and seeing the production by The Children's Theatre, I was inspired and wanted to visit the jungle. So, I closed my eyes and wished to be in the jungle. When I opened my eyes, all around me were trees for as far as I could see. I was standing on a path, so I decided to walk. This is what I saw.

Above my head, high up in the trees there were three toucans sitting on branches while two others were flying with ease. Next came the ferocious panthers, which doubled the number of birds. They were the scariest creatures and left me without words. Thunder came next, but wait...it's not from the sky. It's a tremendous herd of elephants! I jump from the path so they may run by. Almost too many to count, the herd is so great. But the number of legs I totaled was sixty-eight. Next, I saw the snakes...mother, father and son. They made me a little nervous, so away I had to run. After running fast and far, I knew I was secure. But now in front of me was a grayish blur. I stopped, standing motionless there on the jungle's floor. Running around me was a pack of gray wolves. It looked as though they just ate, but were interested in some more. They focused on my location and slowly drew near. There I stood...all alone...shaking tremendously...with fear! Two in front of me, three in the back, and one on each side of me about to attack. As they leapt into the air, I quickly closed my eyes. I waited to feel their sharp claws, but what a surprise. After waiting for what seemed like forever, I slowly took a look. There sitting on my lap in front of me was Kipling's Jungle Book.

List all the animals from the story.	How many are there of each animal?	Based on the total number of animals, calculate the % amount for each animal?
1. _____	1. _____	1. _____
2. _____	2. _____	2. _____
3. _____	3. _____	3. _____
4. _____	4. _____	4. _____
5. _____	5. _____	5. _____



Directions: Part II

Use the percents that you calculated above to create a pie graph (circle graph). Include a title, a legend or key, and make each piece of the pie graph a different color to match the legend or key.

(Title)

