

Ratios in the Animal Compound

Essential Question: How many ratios can I calculate in the Animal Compound?

Objective: Students will convert actual numerical amounts from the Aviary into simplified ratios.

Standard(s):

MAFS.6.RP.1.1

Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, the ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak. For every vote candidate A received; candidate C received nearly three votes.

Materials:

- Pen or Pencil
- 1 pieces of notebook paper (loose leaf)
- Bell work sheet (Optional – may be written on the board)

Setup: None

Lesson Duration: 5-15 minutes

Directions: The students will complete the bell work relating to the Animal Compound activity.



Bell Work

Use the information below to create statements that describe a relationship between two quantities.

Sample Florida Native Animal Collection at Nature's Classroom:

Birds of Prey: American Bald Eagle, Barred Owl, Turkey Vulture, Barn Owl, Red-Tailed Hawk, Red-Shoulder Hawk, Great Horned Owl (2)

Mammals: Bobcat, Red Fox, Grey Fox, Opossum, Raccoon (2), White-tail deer (3), Panther (2), Black Bear (2)

Reptiles: Water turtle (3), Alligator

Total number of Mammals:

Total number of Reptiles:

Total number of Birds of Prey:



1. Create three ratio relationships using the information above.
2. Simplify the ratio if able
3. Write a statement describing the ratio

- A 1. Ratio
2. Simplify
3. Statement
- B 1. Ratio
2. Simplify
3. Statement
- C 1. Ratio
2. Simplify
3. Statement

Examples:

Ratio: 6 beaks / 12 wings

Simplified: 1 beak / 2 wings

Statement: For every beak, there are two wings

Ratio: 22 inch wing span of Eastern Screech Owl / 36 inch wing span of Eagle

Simplified: 11 inch Owl wing span / 18 inch Eagle wing span

Statement: For every 1 inch in an owl's wing, there are $1\frac{2}{3}$ inch in an eagle's wing

Ratio: 5 enclosures / 20 animals

Simplified: 1 enclosure / 5 animals

Statement: For every 1 enclosure there are 5 animals