



Name: _____

Megaherbivore Math

Everybody knows that giraffes, elephants, and rhinos are big, but just how BIG are they? Let's find out!

Materials:

- ruler or other measurement tool, you can print one for free at <https://www.printablerulers.net/>
- one of the following: yarn, string, ribbon, or sidewalk chalk
- scissors (only if you are using yarn, string, or ribbon)
- pencil
- another person to help you measure yourself

Directions:

1. Ask another person in your home to help you measure how tall you are, rounded to the nearest foot. Be sure to stand up straight! Record your height here:

I am _____ feet tall

2. If you are using yarn, string, or ribbon, measure out a piece and cut it to be as long as you are. If you are using sidewalk chalk, go to a safe place where you have permission to draw with chalk. Have someone in your home trace the outline of your body on the ground.
3. Parker is a male Masai giraffe at Seneca Park Zoo. Male Masai giraffes are 17 feet tall on average. Cut a piece of yarn, string or ribbon that is 17 feet long OR draw a line that is 17 feet long next to your chalk outline. Label the chalk line "giraffe."



4. Compare your height to a male Masai giraffe. How much taller is the giraffe?

$$\underline{\hspace{2cm}} \quad - \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

giraffe's height *My height*

A male Masai giraffe is _____ feet taller than me.

5. About how many of you would it take to be as tall as a male Masai giraffe?

_____ of me

6. Lilac is a female African elephant at Seneca Park Zoo. Female African elephants are 8 feet tall at their shoulder on average. Cut a piece of yarn, string or ribbon that is 8 feet long OR draw a line that is 8 feet long next to your chalk outline. Label the chalk line “elephant.”

7. Compare your height to a female African elephant. How much taller is an elephant?

$$\underline{\hspace{2cm}} \quad + \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

My height *elephant's height*

A female African elephant is _____ feet taller than me.

8. About how many of you would it take to be as tall as a female African elephant?

_____ of me



9. Bill is a male white rhinoceros at Seneca Park Zoo. Male white rhinoceroses are 5 feet tall at the shoulder on average. Cut a piece of yarn, string or ribbon that is 5 feet long OR draw a line that is 5 feet long next to your chalk outline. Label the chalk line “rhino.”

10. Compare your height to a male white rhinoceros. How much taller is the rhino?

$$\underline{\hspace{2cm}} + \underset{\text{My height}}{\underline{\hspace{2cm}}} = \underset{\text{rhino's height}}{\underline{\hspace{2cm}}}$$

A male white rhinoceros is _____ feet taller than me.

11. About how many of you would it take to be as tall as a male white rhinoceros?

_____ of me

12. Let's compare the three megaherbivores (giraffe, elephant and rhino).

Which megaherbivore was the tallest?

Which megaherbivore was the shortest?

Put the megaherbivores in order from shortest to tallest:

_____ < _____ < _____