

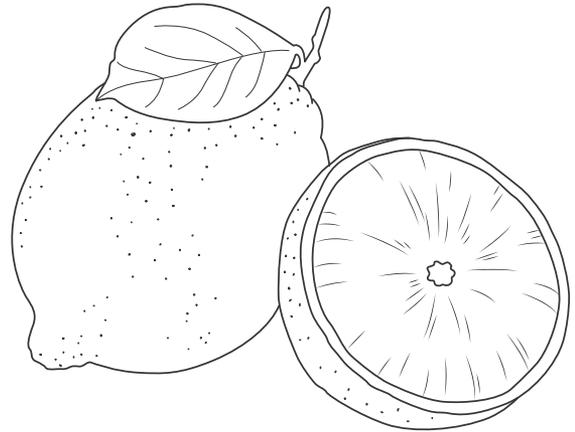
Name \_\_\_\_\_

Pick a Project

Project 3A

## Key Lime Pie

Key lime pie is made with Key limes from the Florida Keys. Key limes are different from Persian limes, which are the kinds of limes you usually see in a market. The rind (or outer covering) and the juice of a Key lime are more yellow than the green rind and juice of Persian limes. Key lime pie is the official pie of the state of Florida.



Key lime pie is also made with condensed milk, which is a canned milk that does not require refrigeration. When Key lime pie was first developed, it was important to use condensed milk since refrigerators were not widely available, especially out in the Florida Keys.

### Your Project Create Data for the Amount of an Ingredient for Key Lime Pie

Research some Key lime pie recipes. How much lime zest is used when making a Key lime pie? The zest of a lime is the outer layer of the lime's rind. Imagine that you own a large bakery. How many teaspoons of lime zest would you need to make 50, 500, and 5,000 Key lime pies? Choose another ingredient and determine how much of that ingredient you would need to make 80, 800, and 8,000 Key lime pies.

Create a presentation that shows how many teaspoons of lime zest you need for each number of pies and how you found your values. Do the same for the other ingredient you chose. Present your strategies and your work to the class.

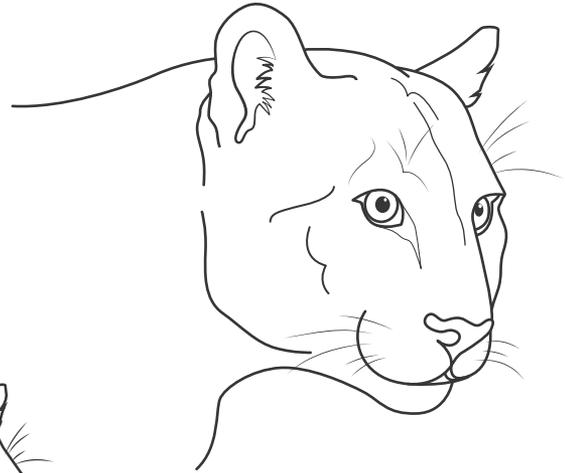
Name \_\_\_\_\_

Pick a Project

Project 3B

## Florida Panther

In 1982, the Florida panther was named the official animal of the state of Florida. The Florida panther is a kind of mountain lion that lives mostly in the forests of southern Florida. Currently, the Florida panther is on a list of endangered species, which means that there are very few of them. As of 2017, it is estimated that there are only 120 to 230 Florida panthers.



When Florida panthers are born, they have spotted coats, and they usually have blue eyes. As a panther grows, its coat turns tan and its eyes turn light brown.

### Your Project Find the Weight of Florida Panthers

Female Florida panthers weigh about 70–75 pounds. Suppose that a Big Cat Preserve needs to rescue 12 female Florida panthers from a tourist attraction that is closing. Estimate the total weight of the 12 panthers. What is the most the panthers could weigh? Compare your estimate to the product.

Draw a picture of a Florida panther, and write a caption that tells how you estimated and then calculated the total weight of the panthers. Share your strategies and your work with another student.

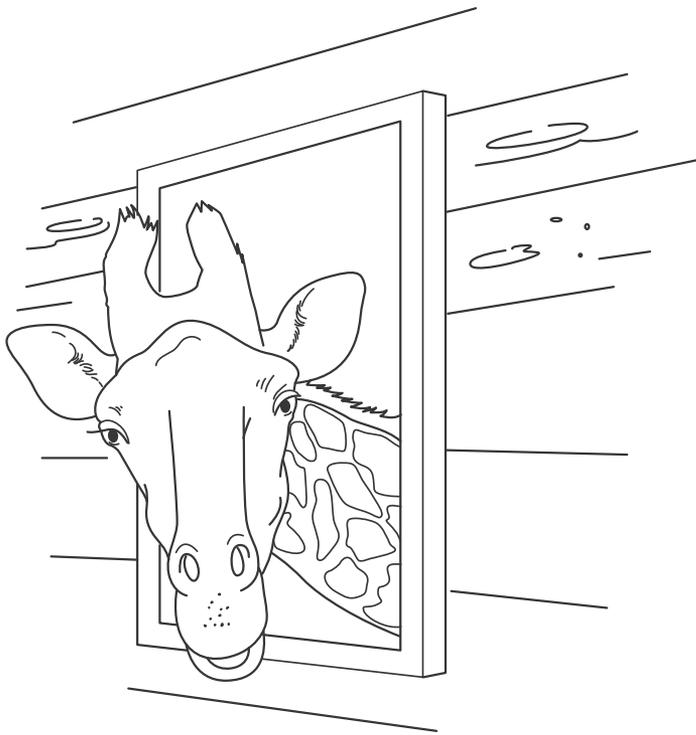
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Pick a Project

Project 3C

## Giraffes

Giraffes are mammals that are native to Africa. They are the tallest living land animal with heights of up to 20 feet. A giraffe's diet consists mostly of the leaves, fruits, and flowers of plants and trees. At the end of 2016, the giraffe was identified as being vulnerable to extinction. It is estimated that fewer than 100,000 giraffes currently live in the wild.



Giraffes are known mostly for their very long necks and legs, as well as their unique coats. Giraffes tend to live in herds.

### Your Project Find the Mass of Giraffes

An average male giraffe has a mass of about 1,192 kilograms. Imagine that you are looking at 3 male giraffes. What is their total mass? Use arrays and partial products to find the answer.

Create a song describing the array you created, the partial products you found, and the total mass of the 3 giraffes. Record your song and plan its release to your class, including cover art.