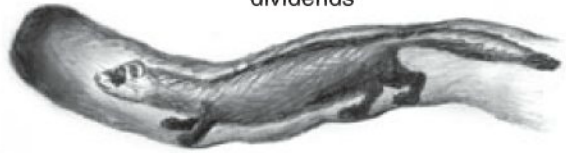


## Review Project

### The Black-Footed Ferret



#### Project

You are a wildlife biologist. You are interested in saving the black-footed ferret from becoming extinct. Your job is to establish a new ferret-breeding program at a zoo. You will keep records about your ferrets to share with other breeders.

#### Plan

You attend a class at the Black-Footed Ferret Conservation Center. The instructor provides the following data about ferrets. Use the data to help you answer these questions.

#### Ferret Population

- In 1987, there were only 18 black-footed ferrets left in the world.
- Now there are about 5,500 black-footed ferrets in captivity plus others in the wild.

#### History of Ferrets at the Conservation Center

- Began with 160 ferrets
- About 420 ferrets born each year
- Released to the wild: about 200 per year



- There are about 36 times as many black-footed ferrets in the wild now as in 1987. About how many black-footed ferrets are there in the wild now? \_\_\_\_\_
- If there are about 3 ferrets born in each litter, about how many litters are born at the Conservation Center each year? \_\_\_\_\_
- About how many black-footed ferrets does the Conservation Center release to the wild in 5 years? \_\_\_\_\_

## Put It Together

- A. Several western states have black-footed ferret release programs. When released, each adult black-footed ferret needs about 120 acres of space to find food. Complete the table to show how many total acres of space each program needs to release the black-footed ferrets successfully.



### FERRET RELEASE PROGRAMS

State	Number of Ferrets per Program	Total Number of Acres Needed
Arizona	8	
Montana	6	
South Dakota	7	
Utah	9	
Wyoming	5	

- B. Suppose that you have now been working on your program for several years. You have kept track of the number of kits that were born. Complete this table to show how many kits were born.

### KITS BORN

Number of Litters	Kits per Litter	Total Kits
13	6	
12	2	
14	5	
24	4	
22	3	
<b>Total Number of Kits:</b>		

Name \_\_\_\_\_

## Reflect

Eventually, you hope to produce between 300 and 350 healthy ferrets each year. Use what you have learned from the Black-Footed Ferret Conservation Center to answer these questions.

A. About how many ferrets do you expect to reintroduce to the wild each year? Explain.

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B. About how many ferrets would you be able to reintroduce to the wild in 5 years? Explain.

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## Go Beyond

Your program is growing. You need to buy more indoor cages and outdoor pens.



- A. Suppose you need to buy 8 more cages. It costs \$229 per cage including shipping, but each cage is charged \$8 extra for being oversized. How much will it cost in all to buy the 8 cages?

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- B. You decide to buy fencing for 5 new pens. Each pen measures 15 feet by 20 feet. How much fencing will you need for 5 pens? Make a drawing to show your work.