

EX 2:

A rare snake gives birth to exactly 3 babies and expires immediately. Those snakes each give birth to 3 more after six months, expiring immediately.

Zootown starts with 15 of these snakes.

- a) Fill in this table to answer the questions below.

# months	# snakes
0	
6	
12	
18	
24	
30	

- b) How many snakes are there in 16 years?
- c) If Zootown has room for only 250 of these snakes, when do they have to start selling them to other zoos?

EX 3:

You have so many Facebook friends to keep track of, that you decide to pare down your list to 15 friends. You allow yourself to add only 3 friends each six months.

- a) Make a table of the total number of contacts you have.

# months	# Friends
0	
6	
12	
18	
24	
30	

- b) How long will it take to get 250 friends?

- c) How many total friends will there be after 16 years?

EX 4:

Let's compare the tables in the two preceding examples.

months	snakes	Facebook contacts
0	15	15
6	45	18
12	135	21
18	405	24
24	1215	27
30	3645	30
36	10,935	33

