

The female *Aedes* sp. mosquito uses blood sucked from vertebrate animals as nourishment. In her lifetime she may lay up to 600 eggs. Once an egg hatches, the larva takes about a week to develop into an adult mosquito, which will live about another 14 days. The coyote, *Canis latrans*, on the other hand, lives an average of about 5 years in the wild. A female reaches sexual maturity at about 2 to 3 years of age, and she produces a litter averaging 7 cubs each spring.

1.) Use the data in the tables to create two graphs showing population size over time.

Day	Number of Adult Mosquitos
May 1	20
May 8	40
May 15	80
May 22	160
May 29	320
June 5	640
June 12	1280
June 19	2560
June 26	5120
July 3	10240

Year	Estimated Number of Coyotes
2001-2002	86
2002-2003	62
2003-2004	65
2004-2005	93
2005-2006	63
2006-2007	45
2007-2008	71
2008-2009	64
2009-2010	54
2010-2011	70
2011-2012	38

2.) Why do you think your graph of the mosquito population looks the way it does?

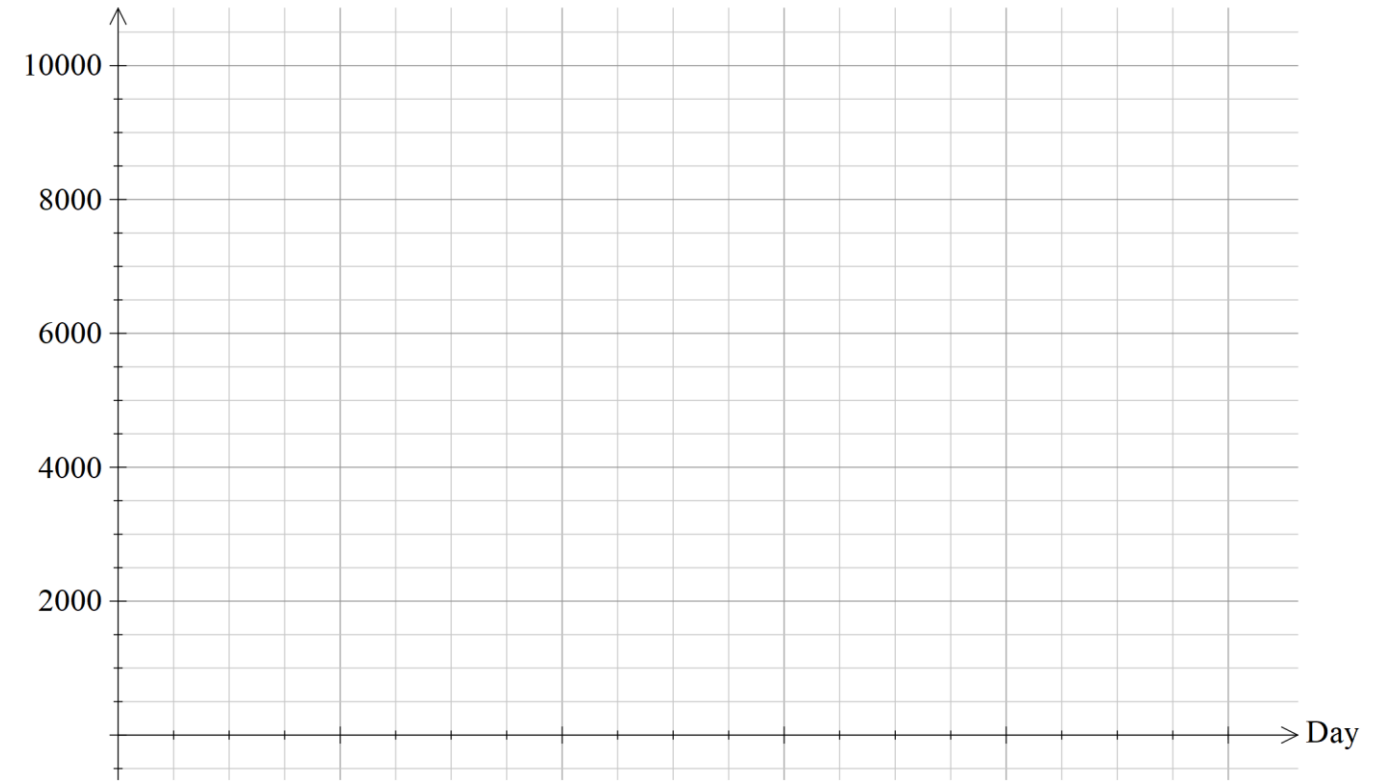
3.) Why do you think your graph of the Coyote population looks the way it does?

4.) What do you think the population of mosquitos will be on July 10th? Why?

5.) What do you think the Coyote population will be in 2012-2013? Why?

6.) What do you think the mosquito population will be on January 31st? Why?

Number of Adult Mosquitos



Number of Coyotes

