



Answer key for Mathematics 9-12 Leopard  
Please note – written responses should be graded by the appropriate rubrics as found on the source page.

Read the about the leopard at  
[http://www.bigcatrescue.org/leopard\\_cat.htm](http://www.bigcatrescue.org/leopard_cat.htm)

The leopard is capable of running 40 miles per hour for short distances, can jump 10 feet vertically and leap more than 20 feet horizontally. A leopard ran a distance of 176 yards. If this leopard had continued at this rate, about how many more minutes would it have taken the cat to run one mile?

- 50 minutes
- 10 minutes
- 40 minutes
- 24 minutes

If a leopard is capable of producing young at age 2 or 3 and can continue until they are 9 years old; producing 1-3 cubs each year, what is the largest possible number of cubs one female can produce in a lifetime. Explain how you solve this problem and show your work.

*There are 8 possible cub-bearing years between 2 and 9 years. If each year the maximum number of 3 cubs were born, the answer is  $3 \times 8 = 24$  cubs*