

Name: _____

Gazelle vs. Cheetah: Comparing Rates Graphically

Animal	Speed (feet per second)
Antelope	89.5
Chicken	13.2
Cheetah	102.6
Coyote	63.1
Domestic Pig	16.0
Elephant	36.6
Elk	66.0
Gazelle	73.3

Animal	Speed (feet per second)
Giant Tortoise	0.3
Grizzly Bear	44.0
Human	41.0
Lion	73.3
Spider	1.76
Squirrel	17.6
Sloth	0.2
Tuna	68.9

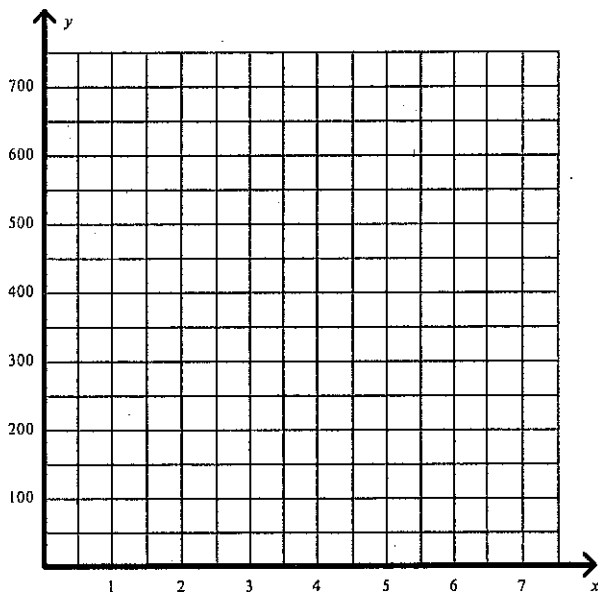
1. A cheetah and a gazelle are running at constant speeds.

a) Find the missing distances to fill in the charts.

	Cheetah	Gazelle
Time (seconds)	Distance (feet)	Distance (feet)
0	0	0
1	102.6	
2		
3		
4		
5		
6		
7		

b) Write an equation to show the relationship between each animal's time and distance.

c) Use the table to complete the line graph for each animal.



d) Which graph is steeper?
The speed of which animal is greater?

2) Choose 3 other animals from the chart.

a) Make a table for each animal similar to the table on the front.

Time (seconds)	Distance (feet)	Distance (feet)	Distance (feet)
0			
1			
2			
3			
4			
5			
6			
7			

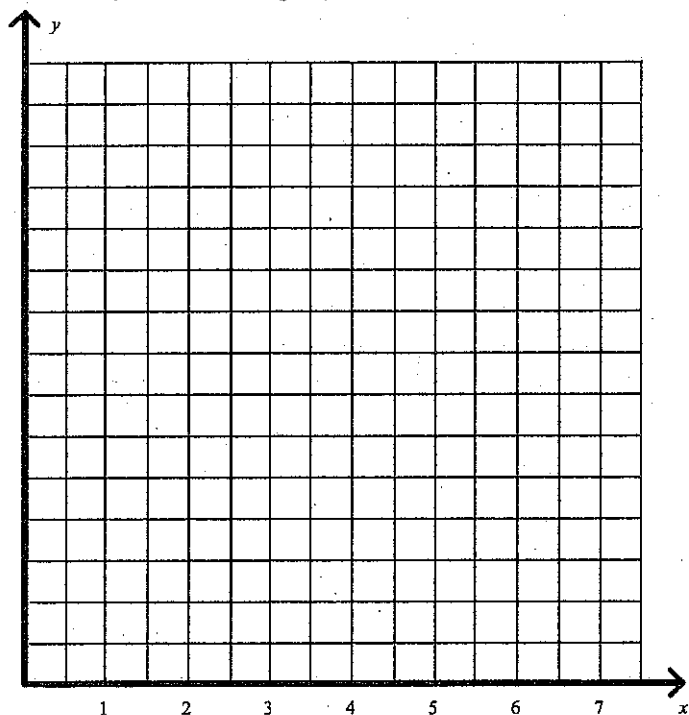
b) Write an equation (1 for each animal) to show the relationship between the time and distance.

Animal 1 _____

Animal 2 _____

Animal 3 _____

c) Sketch a graph of the distances for each animal.



d) Compare the steepness of the graphs. What can you conclude?