

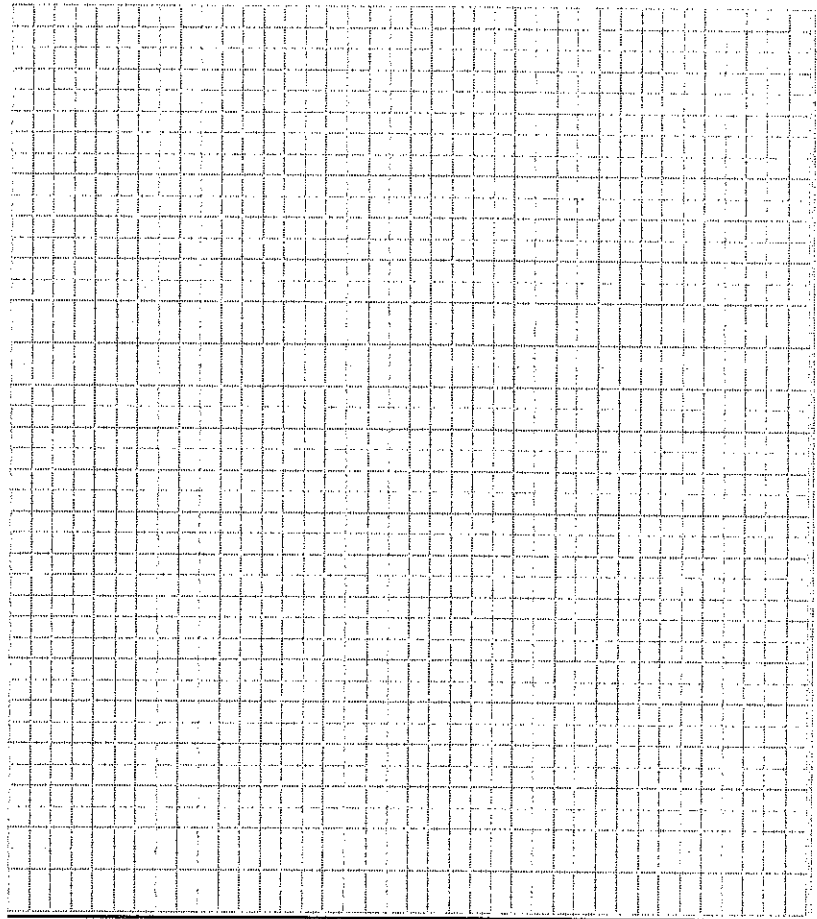
## The Turtle Problem

Veterans Island and The Isle of Northside both have an indigenous population of endangered turtles. In 2012, both islands had an initial population of 200 endangered turtles. The repopulation project initiated by scientists Brown & Peavy looks quite promising. At Veterans, the turtle population increases by 500 turtles per year, while at Northside, the population of turtles doubles each year.

	At Veterans...	At Northside...
Starting Population	200 turtles in 2012	200 turtles in 2012
Rate of Turtle Growth per Year. The population...	increases 500 per year	doubles each year

Graph both on the same axes, below. Take care to label your graph, show the incremental units of measure that you used, and round as appropriate for your population numbers. Indicate which graph is which.

Calendar Year	Year	Veterans Island	Isle of Northside
2012	0	200	200
2013	1		
2014	2		
2015	3		



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1. What will the population of turtles on each island be after 5 years?

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2. Which island saw the greatest change in turtle population?

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3. Is it possible that the most effective repopulation program may experience future turtle problems? Explain.

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4. Write the equation for each island. Include a legend for each of your variables!

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