Name:	Date:
Partners:	Hour:
Continental Population Models	
Citation: Wikipedia. List of Continents by Population. (n.d.). Wikimedia Foundation. Retrieved from https://en.wikipedia.org/wiki/List_of_continents_by_population	
AFRICA A. Given each data set below, create an exponential function of the form P=C to over time. Record your models in the chart below.	model the population of Africa
1. In 1990, there were 629.987 million people in Africa. By 2000, there were 808.3	04 million people in Africa.
2. In 2000, there were 808.304 million people in Africa. By 2010, there were 1031.	084 million people in Africa.
3. In 1950, there were 228.827 million people in Africa. By 2000, there were 808.3	04 million people in Africa.
4. In 1960, there were 285.270 million people in Africa. By 2010, there were 1031.	084 million people in Africa.
B. Use each of the four models you created to predict the population of Africa in the chart below.	2013. Record these predictions on

Question Number	Model	2013 Prediction	Error
1			
_			
2			
3			
4			
5			



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C. The actual population of Africa in 2013 was 1110.635 million people. Calculate record it in the chart above. Which model was the most accurate?	the error of each model and
D. Compare the data you used for the model you chose in part C to the data used the data do you think explains why the model you choose was most accurate?	d in the other models. What about
NORTH AMERICA A. Given each data set below, create an exponential function of the form P=C to America over time. Record your models in the chart below.	model the population of North
1. In 1990, there were 431.654 million people in North America. By 2000, there we America.	ere 493.449 million people in North
2. In 2000, there were 493.449 million people in North America. By 2010, there we America.	ere 548.672 million people in North
3. In 1950, there were 227.024 million people in North America. By 2000, there we America.	ere 493.449 million people in North
4. In 1960, there were 277.025 million people in North America. By 2010, there we	ere 548.672 million people in North
America.	<u></u>

ame:			Date:
artners:			Hour:
Use each or		predict the population of North Am	erica in 2013. Record these
uestion lumber	Model	2013 Prediction	Error
	population of North America in 2 in the chart above. Which model	2013 was 565.265 million people. Cal	culate the error of each model
	. In the chart above. Which model	was the most accurate.	
. Compare	the data you used for the model y	you chose in part C to the data used	n the other models. What about
e data do	you think explains why the model	you choose was most accurate?	
OUTH AME	DICA		
Given eac	h data set below, create an expor	nential function of the form P=C to m	odel the population of South
merica ove	r time. Record your models in the	chart below.	

 $1. \ In \ 1990, there \ were \ 295.835 \ million \ people \ in \ South \ America. \ By \ 2000, there \ were \ 384.246 \ million \ people \ in \ South \ America.$ America.

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2. In 2000, America.	there were 384.246 million people i	n South America. By 2010, there were	e 394.021 million people in South
3. In 1950, America.	there were 112.460 million people i	n South America. By 2000, there were	e 384.246 million people in South
4. In 1960, America.	there were 147.766 million people i	n South America. By 2010, there were	e 394.021 million people in South
B. Use each of the four models you created to predict the population of South America in 2013. Record these predictions on the chart below.			
Question Number	Model	2013 Prediction	Error

Question Number	Model	2013 Prediction	Error
1			
2			
3			
4			
5			

C. The actual population of South America in 2013 was 406.740 million people. Calculate the error of each model and record it in the chart above. Which model was the most accurate?

D. Compare the data you used for the model you chose in part C to the data used in the other models. What about the data do you think explains why the model you choose was most accurate?

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Comparing Continents			
Continent	Model	Current Population (this year)	
Africa			
Asia			
Europe			
North America			
South America			
For questions 1-10, determine when t	he population of the two continents list	ted was (or will be) equal.	
1. Africa and Asia	2. Asia and Europe	3. Europe and North America	
4. North America and South America	5. South America and Africa	6. Africa and Europe	
7. Asia and North America	8. Europe and South America	9. North American and Africa	

10. South America and Asia



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What about this data and information is surprising to you? Explain why you think it is surprising.