Name(s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_ Deforestation

According University of Maryland research, as of 2014, there are approximately 3.2 billion acres of land covered by rain forest in the world. This includes primary (forests that have not been touched) and secondary (second growth) rain forests. Rain forests cover 8% of Earth’s land, decreased from 14% originally.

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In the image to the right, each square represents 10,000,000 acres of rain forest. Shade in an area that is representative of the amount of rain forest remaining as of 2014. The number of squares shaded in is \_\_\_\_\_\_\_\_\_\_.

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According to a 2005 report by the **United Nations Food and Agriculture Organization (FAO)** estimated that the Earth's total forest area is decreasing at a rate of about **32 million acres per year.**  Starting with the 2014 estimate of rainforest acreage, what is the amount of rain forest that would be left in 2017 based on a loss of 32,000,000 acres annually. Show your mathematics below:

The number of squares shaded to represent rainforest land in 2017 based on the loss of 32,000,000 acres annually is \_\_\_\_\_\_. Round to the nearest million.

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According to a 2005 report by the **United Nations Food and Agriculture Organization (FAO)** estimated that the Earth's total forest area is decreasing at a rate of about **32 million acres per year.**  Starting with the 2014 estimate of rainforest acreage, what is the amount of rain forest that would be left in 2024 based on a loss of 32,000,000 acres annually. Show your mathematics below:

The number of squares shaded to represent rainforest land in 2024 based on a loss of 32,000,000 acres annually is \_\_\_\_\_\_. Round to the nearest million.

According to a 2005 report by the **United Nations Food and Agriculture Organization (FAO)** estimated that the Earth's total forest area is decreasing at a rate of **about 32 million acres per year.**  Starting with the 2014 estimate of rainforest acreage, what is the amount of rain forest that would be left in 2034 based on a loss of 32,000,000 acres annually. Show your mathematics below:

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The number of squares shaded to represent rainforest land in 2034 based on a loss of 32,000,000 acres annually is \_\_\_\_\_\_. Round to the nearest million.

According to, **Land and Forest Economics (2004), by van Kooten and Folmer**, 0.2% of the rain forest is destroyed yearly. Starting with the 2014 estimate, how many acres of rain forest that would be lost in one year? Show your mathematics below:

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If we use that the amount of acreage you determined above for the loss each year, how many acres would be left in 2017. Show your mathematics below:

The number of squares shaded to represent rainforest land in 2017 based on the 0.2% loss is \_\_\_\_\_\_. Round to the nearest million.

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If we use the amount you determined for the 2014 loss based on Land and Forest Economics (2004), by van Kooten and Folmer’s 0.2% loss, how many acres of rain forest will be left in 2024? Show your mathematics below:

The number of squares shaded to represent rainforest land in 2024 based on the 0.2% loss is \_\_\_\_\_\_. Round to the nearest million.

If we use the amount you determined for the 2014 loss based on Land and Forest Economics (2004), by van Kooten and Folmer’s 0.2% loss, how many acres of rain forest will be left in 2034? Show your mathematics below:

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The number of squares shaded to represent rainforest land in 2034 based on the 0.2% loss is \_\_\_\_\_\_. Round to the nearest million.

Important statistics:

According to a 2005 report by the United Nations Food and Agriculture Organization (FAO) estimated that the Earth's total forest area continued to decrease at **about 32 million acres per year**.

According to, Land and Forest Economics (2004), by van Kooten and Folmer, the rainforest is destroyed at a rate of **about 0.2% per year**.

1. Why is there a difference between van Kooten and Folmer and the 2005 report by the United Nations Food and Agriculture Organization (FAO) statistics?
2. What are two conclusions you can draw from looking at your graphs and data? (Answer this question after you finish the graphs.)
3. Approximately, in what year will there be no rain forest left based on the 2005 report by the United Nations Food and Agriculture Organization (FAO) estimate? Show your mathematics and explain how you figured this out.