

Graphing the Crops and Crowds

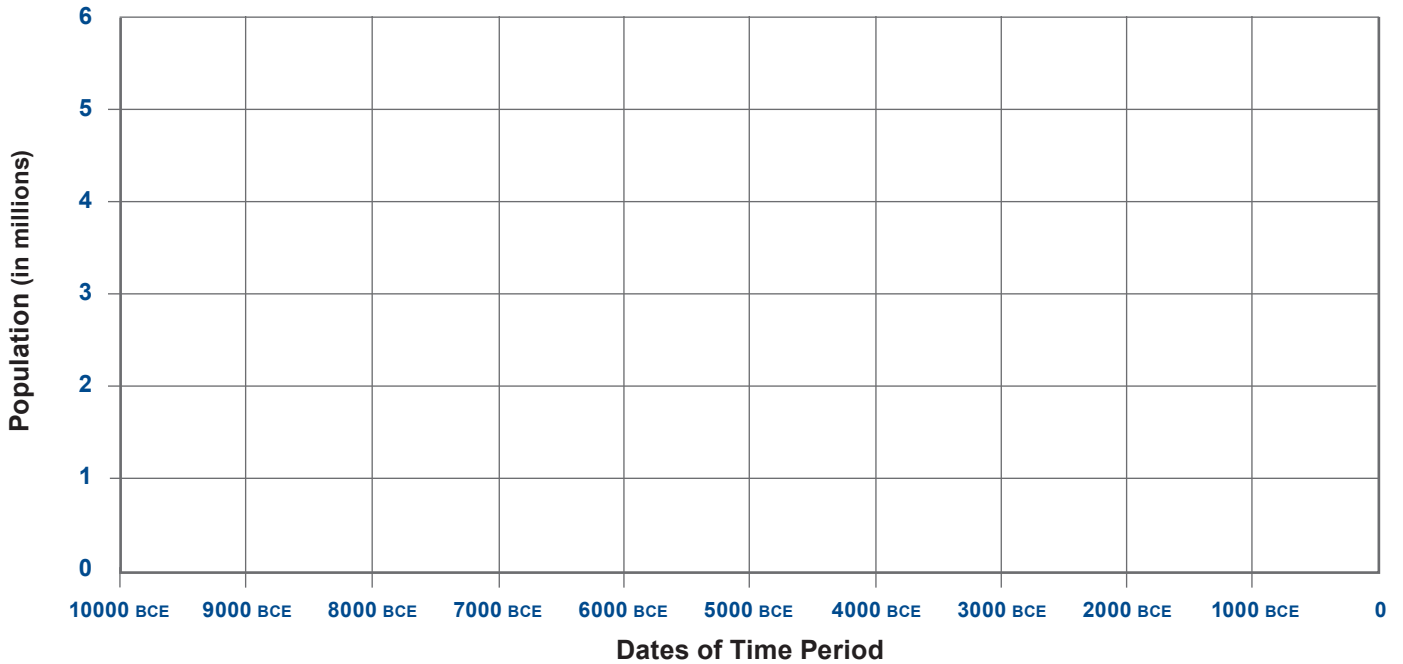
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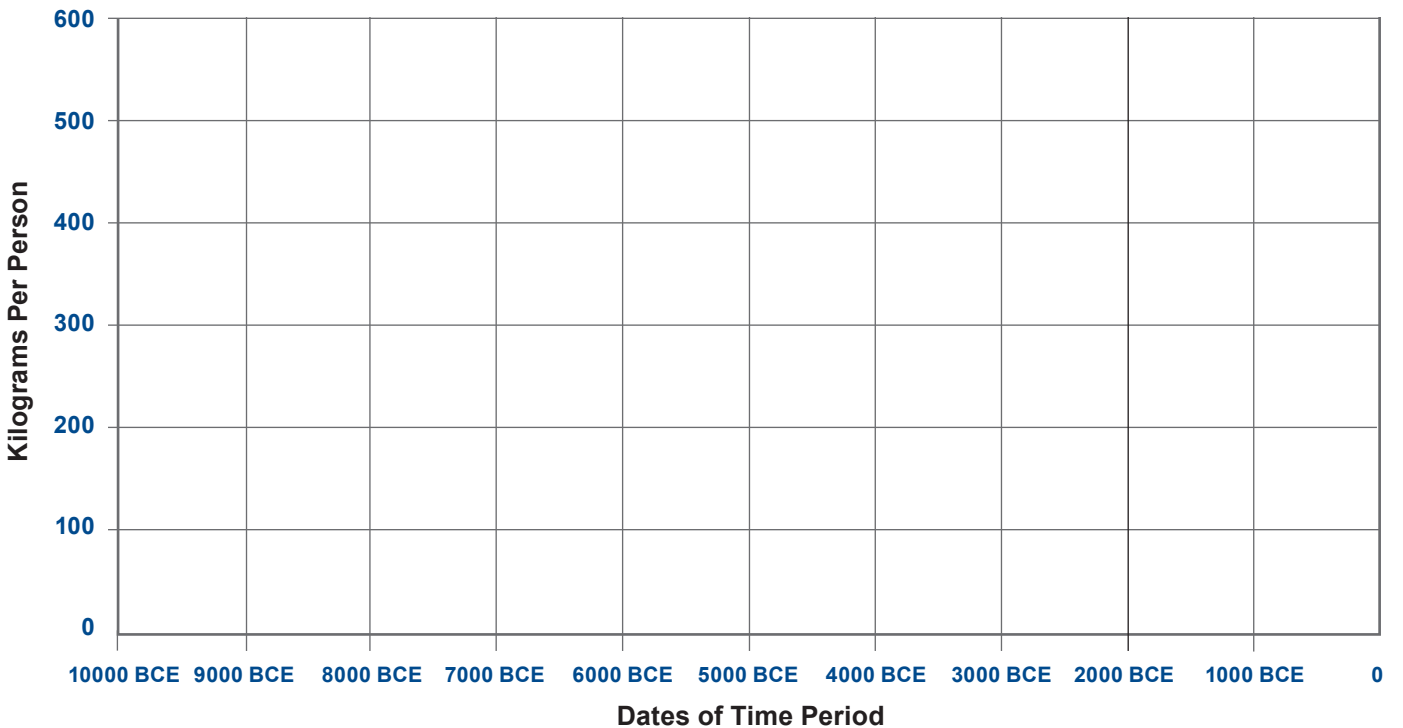
Part 2

Instructions: Use the data on the **Data Tables for Counting the Crops and Crowds** (Student Workbook, pages 13–14) to complete each of the graphs below. (5 points each)

POPULATION IN ANCIENT EGYPT GRAPH



CROP YIELD IN ANCIENT EGYPT GRAPH



Name: _____

Instructions: Use the data in the following tables to build graphs on **Graphing the Crops and Crowds** (Student Workbook, pages 5–8).

Population In Ancient Egypt Chart

Description of Time Period	Dates	Population
Pre-Agriculture on the Nile	8000 BCE	100,000
Agriculture on the Nile begins; first permanent buildings built	6000 BCE	200,000
Old Kingdom: Invention of the shaduf and irrigation canals	2650 BCE	1 million
Middle Kingdom	2030 BCE	2 million
New Kingdom	1550 BCE	3 million
Late Period	1295 BCE	4 million
Beginning of Common Era	0	5 million

Name: _____

Crop Yield In Ancient Egypt Chart

Description of Time Period	Dates of Time Period	Crop Yield per Person (Average)
Pre-Agriculture on the Nile	8000 BCE	2 kilograms
Agriculture on the Nile begins; first permanent buildings built	6000 BCE	100 kilograms
Old Kingdom: Invention of the shaduf and irrigation canals	2650 BCE	350 kilograms
Middle Kingdom	2030 BCE	400 kilograms
New Kingdom	1550 BCE	450 kilograms
Late Period	1295 BCE	550 kilograms
Beginning of Common Era	0	600 kilograms

Summing the Wheat Surplus

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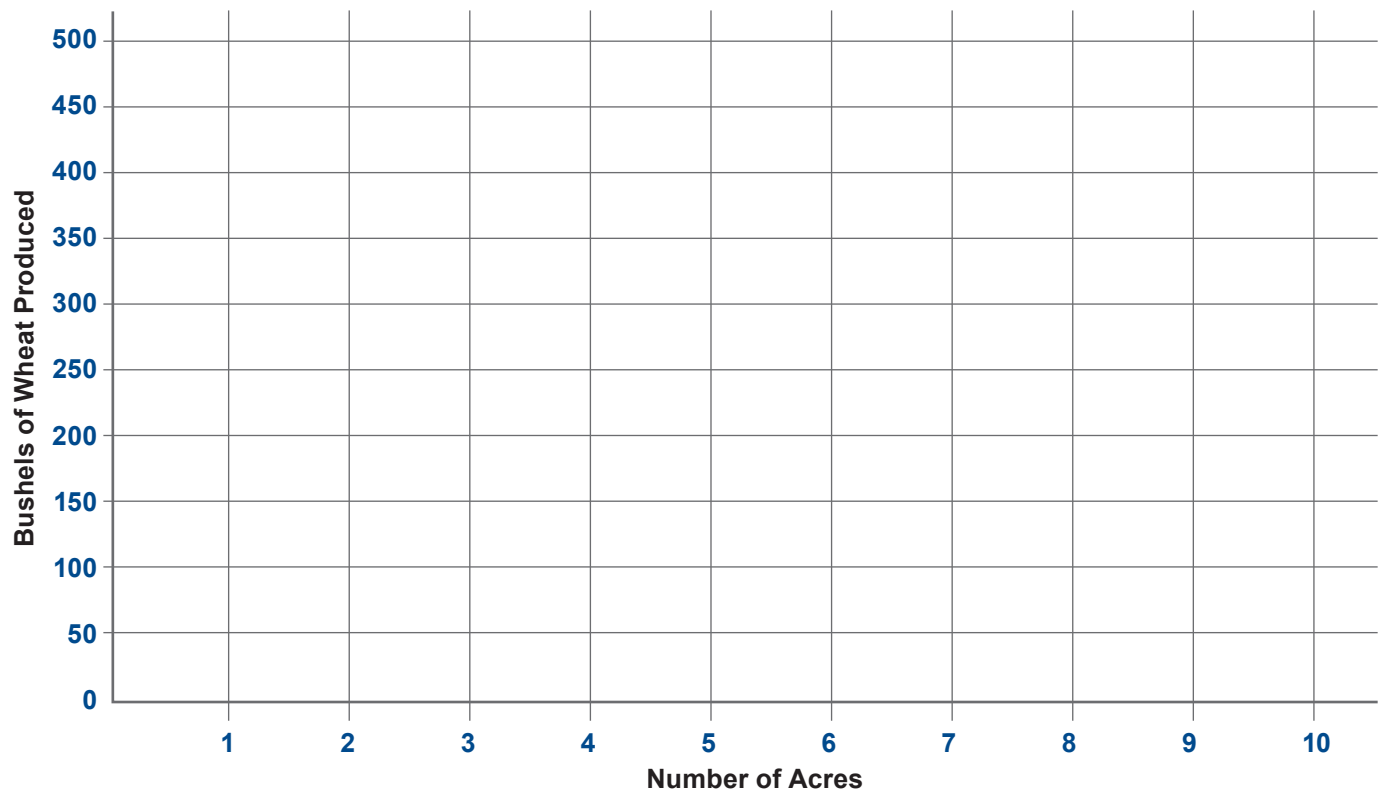
Instructions:

1. Review the data in the tables.
2. Create the graphs described below each table.
3. Answer the questions on page 2 using the graphs.

Bushels of Wheat Produced (1 bushel weighs 60 pounds)	Number of Acres Needed (acre = 43,560 square feet or about $\frac{3}{4}$ of a football field)	Amount of Water Needed (in gallons)
45	1	245,454
90	2	490,908
225	5	1,227,270
450	10	2,454,540

Graph 1: Bushels of Wheat Produced Per Acre

Make a graph showing the relationship between the number of bushels of wheat produced and the number of acres needed.



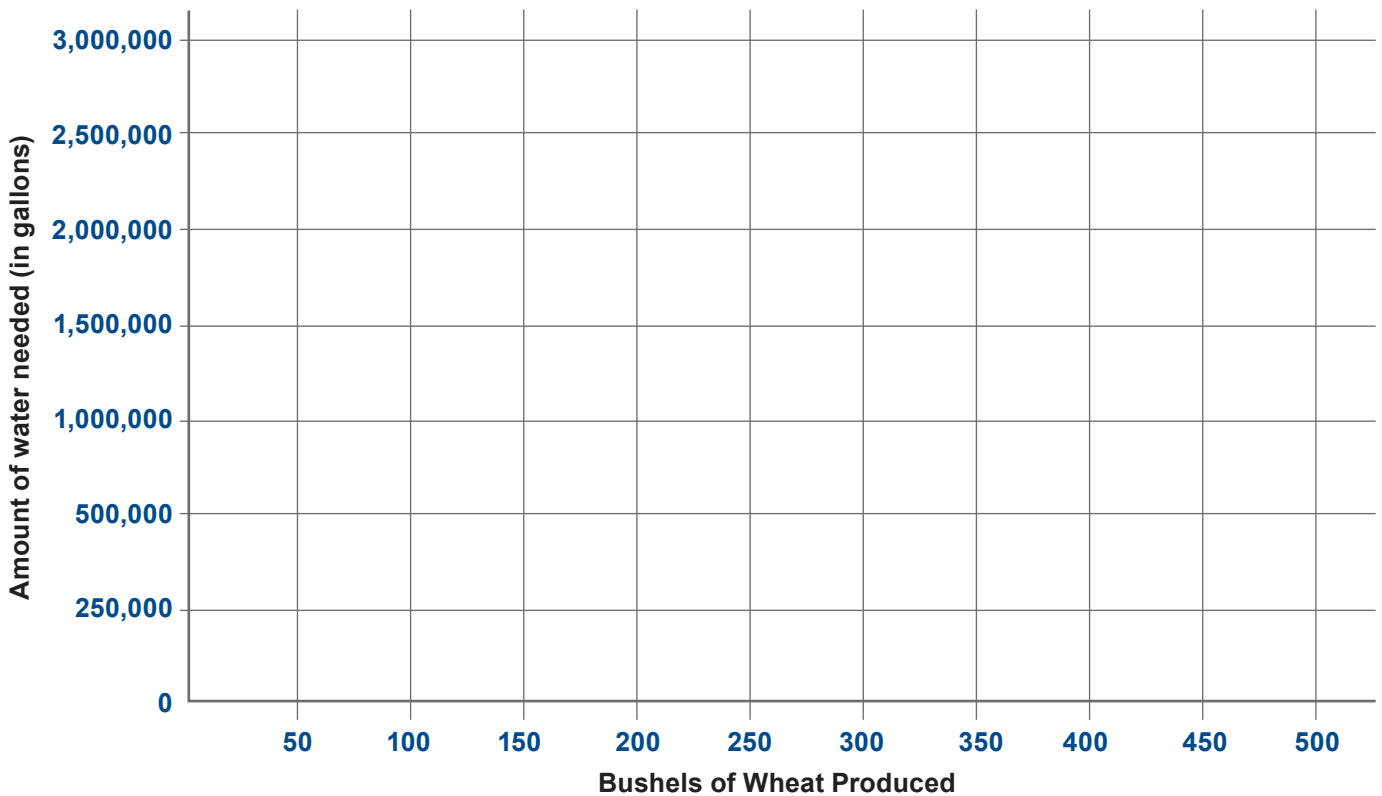
Summing the Wheat Surplus

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Graph 2: Amount of Water Needed Per Acre for Wheat

Make a graph showing the relationship between the number of bushels of wheat produced and the amount of water needed.



Questions for Graphs 1 and 2 (circle the appropriate answer)

1. As the number of bushels of wheat increases, the number of acres needed **increases** or **decreases**.
2. As the number of bushels of wheat increases, the amount of water needed **increases** or **decreases**.
3. Think about the relationship between these elements. What would this mean for a farmer in ancient times?
