

Teacher Guide

Problem Solving with U.S. Population Numbers (TG p. 1–2)
Questions 1–2

1. Answers will vary. Students should use rounding to see that in 1972 the population was about 200,000,000 and in 2012 it was about 300,000,000. So there are about 100,000,000 more people in 2012 than in 2013.
- 2.* Answers will vary. In the forty years from 1972 to 2012, the population of the U.S. increased by about 100,000,000. The population still has to increase by about another 100,000,000 to reach four hundred million. At the same rate of growth, it will take about another 40 years to increase by another 100,000,000. Forty years after 2012 is 2052.

Note: These populations were estimated by the U.S. Census as of July 1, 2012.

Name _____ Date _____

Problem Solving with U.S. Population Numbers

1. The population of the United States as reported in 1972 was 209,896,021 people and in 2012 reported as 313,914,040 people. About how many more people were there in the United States in 2012 than in 1972? Show or tell how you solved this problem.

2. If the U.S. continues to grow at this rate, estimate the year in which the population goes over four hundred million. Explain how you decided.

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Problem Solving with U.S. Population Numbers Feedback Box		Check In	Comments
Read and write large numbers.	Expectation	E1	
Compare and order large numbers.	Expectation	E2	
Round large numbers.	Expectation	E3	
MP2.2. Find a strategy. I choose good tools and an efficient strategy for solving the problem.	Yes No, but No	Yes, but No, but No	
MP4.4. Check my calculations. If I make mistakes, I correct them.			
MP6.5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.			

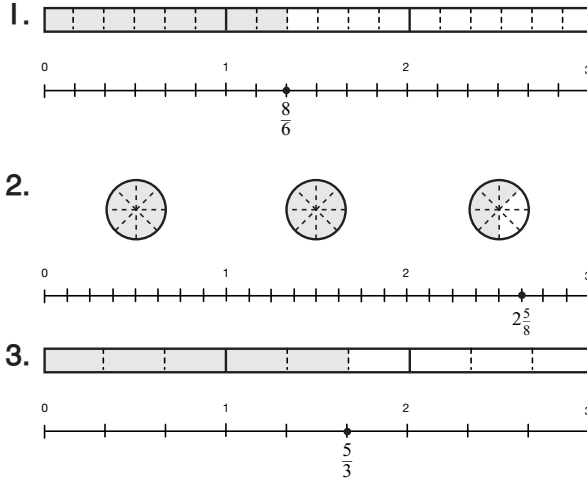
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*Answers and/or discussion are included in the lesson.

Teacher Guide

Part 2. Representing Fractions (TG p. 2)
Questions 1–3



Part 3. Mixed Numbers (TG p. 3)
Questions 1–2

1. A. $\frac{22}{3}$
 B. $\frac{17}{5}$
 C. $\frac{89}{8}$
2. A. $4\frac{2}{3}$
 B. $9\frac{2}{7}$
 C. $10\frac{3}{10}$

Part 4. Rounding Numbers (TG p. 39)
Questions 1–2

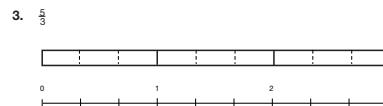
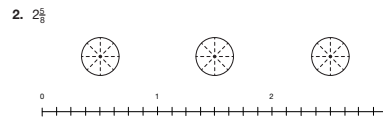
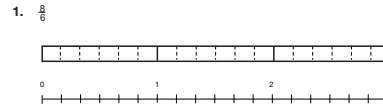
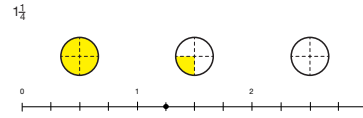
1. A. 2000 B. 6000 C. 1000
 D. 15,000 E. 28,000 F. 60,000
2. A. 10,000 B. 30,000 C. 60,000
 D. 110,000 E. 190,000 F. 220,000

Name _____ Date _____

Part 2 Representing Fractions

Show the fraction by shading the circles or rectangle. Then show where it is on the number line. Label the point. The first problem is an example.

Example:



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Name _____ Date _____

Part 3 Mixed Numbers

Solve the following problems.

1. Change the following mixed numbers to fractions.

- A. $7\frac{1}{3}$ B. $3\frac{2}{5}$ C. $11\frac{1}{8}$

2. Change the following fractions to mixed numbers.

- A. $\frac{14}{3}$ B. $\frac{65}{7}$ C. $\frac{103}{10}$

Part 4 Rounding Numbers

Draw (or think of) number lines to help you with Questions 1–2.

1. Round the following numbers to the nearest thousand.

- A. 2138 B. 5894 C. 988
 D. 14,867 E. 28,159 F. 59,876

2. Round the following numbers to the nearest ten thousand.

- A. 12,864 B. 28,157 C. 59,874
 D. 109,968 E. 190,957 F. 216,436

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