Name Jack Date _____

1. Round to the nearest thousand.

a. 5,300 ≈ 5,000 b. 4,589 ≈ 5,000

c. 42,099 ≈ 42,000 d. 801,504 ≈ 802,000

e. Explain how you found your answer for letter d.
For letter d I looked at the thousands place which was a 1. Then I looked to the hundreds place and saw that it was five hundred so I knew to round the thousands place up to 2 thousand.

2. Round to the nearest ten thousand.

a. 26,000 ≈ 30,000 b. 34,920 ≈ 30,000

c. 789,091 ≈ 790,000 d. 706,286 ≈ 710,000

e. Explain why two problems have the same answer. Write another number that has the same answer when rounded to the nearest ten thousand.
The problems have the same answer because 26,000 can be rounded up to 30,000 and 34,920 can be rounded down to 30,000. Another number could be 29,999.

3. Round to the nearest hundred thousand.

a. 840,000 ≈ 900,000 b. 850,471 ≈ 900,000

c. 761,004 ≈ 800,000 d. 991,965 ≈ 1,000,000

e. Explain why two problems have the same answer. Write another number that has the same answer when rounded to the nearest hundred thousand.
Two problems are the same because 840,000 is rounded down to 800,000 and 761,004 is rounded up to 800,000. Another number could be 801,111.

4. Solve the following problems using pictures, numbers, and words.

a. The 2012 Super Bowl had an attendance of just 68,658 people. If the headline in the newspaper the next day read "About 70,000 People Attend Super Bowl," how did the newspaper round to estimate the total number of people in attendance?
The newspaper rounded to the nearest ten thousand to estimate the total number of people in attendance.

b. The 2011 Super Bowl had an attendance of 103,219 fans. If the headline in the newspaper the next day read "About 200,000 People Attend Super Bowl," is the newspaper's estimate reasonable? Use rounding to explain your answer.
The newspaper's estimate is not reasonable because 103,219 does not round to 200,000. 103,219 rounds to 100,000 when rounding to the nearest hundred thousand.

c. According to the problems above, about how many more people attended the Super Bowl in 2011 than in 2012? Round each number to the largest place value before giving the estimated answer.

(2012) 68,658 ≈ 70,000
(2011) 103,219 ≈ 100,000

100,000 → 100 thousand
- 70,000 → - 70 thousand
30,000 30 thousand

About 30,000 more people attended the Super Bowl in 2011 than in 2012.