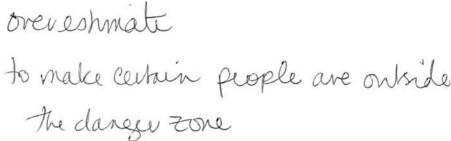
Name	K E I	

**Instructions**: Show all work. Partial credit can only be given where work is shown. Be sure to answer all parts of each question. You may not use a calculator on this quiz.

1. In determining an evacuation zone, a scientist must estimate the distance that lava from an erupting volcano will flow. Should she overestimate or underestimate? Explain.



2. Find a range estimate for  $1349 \times 45$ .

$$1300 \times 40 = 52,000$$
  
 $1400 \times 50 = 70,000$ 

3. Use the Russian peasant algorithm to find the product of  $44 \times 83$ .

4. Use a number line, and the repeated subtraction approach to find the dividend and remainder of  $42_{seven} \div 5_{seven}$ .

