



Name _____ Date _____

Directions: Use the digits 1, 2, 3, 4, and 5 to fill in the spaces. Predict which order will result in the GREATEST PRODUCT. Now use your calculator to do the multiplication. Try the pattern again with a different arrangement of digits. Be sure to record your factors and the product every time you change the order of the digits. Use your best estimation skills to reduce the number of trials you need to determine the GREATEST PRODUCT. As you adjust your factors, predict what will happen and your reasons for making the change. Once you have found the largest product, try to write a rule that would allow someone else to make the largest product using any five numbers.

Next, try to arrange the digits to find the smallest product. How does the rule you created relate to this challenge?

Rule: _____

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□	□	□
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□	□	□
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X	□	□
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X	□	□
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X	□	□
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□	□	□
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□	□	□
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□	□	□
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X	□	□
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X	□	□
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X	□	□
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