**4.NBT.5 Task 18**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The teacher challenged her students to make the smallest product using the following digits:

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| 4 | 3 | 8 |

Crystal claimed that she made the smallest product by arranging the digits this way:

 **38 x 4**

Shelley thought she created the smallest product by arranging the digits this way:

 **48 x 3**

Which student actually found the smallest product? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain your thinking and show your work to prove your answer.

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| Teacher notes: |
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| **Not yet:** Student shows evidence of misunderstanding, incorrect concept or procedure | **Got It:** Student essentially understands the target concept. |
| **0 Unsatisfactory:** **Little Accomplishment**The task is attempted and some mathematical effort is made. There may be fragments of accomplishment but little or no success. Further teaching is required. | **1 Marginal:** **Partial Accomplishment**Part of the task is accomplished, but there is lack of evidence of understanding or evidence of not understanding. Further teaching is required. | **2 Proficient:** **Substantial Accomplishment**Student could work to full accomplishment with minimal feedback from teacher. Errors are minor. Teacher is confident that understanding is adequate to accomplish the objective with minimal assistance. | **3 Excellent:** **Full Accomplishment**Strategy and execution meet the content, process, and qualitative demands of the task or concept. Student can communicate ideas. May have minor errors that do not impact the mathematics. |

Adapted from Van de Walle, J. (2004) Elementary and Middle School Mathematics: Teaching Developmentally. Boston: Pearson Education, 65 |