2.NBT Digits 2-5-7

Alignments to Content Standards: 2.NBT.A.4

Task

a. Use all the digits 5, 7, and 2 to create different 3-digit numbers.

b. What is the greatest number you can make using all of the digits?

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c. What is the smallest number you can make using all of the digits?

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IM Commentary

Students who are struggling to build an understanding of the relationship between digit placement and the value of the number may still need concrete manipulatives such as grid paper and Base Ten Blocks.

As a classroom extension, after students have worked independently or in small groups to solve the problem, the teacher can ask students to share their numbers, until all six possibilities are listed. Then, independently or as a whole group, students can order the six numbers from smallest to largest (or largest to smallest).
a. The correct answers are 752, 725, 572, 527, 275, and 257.

b. 752 is the greatest number with seven hundreds, five tens, and two ones.

c. 257 is the smallest number with two hundreds, five tens, and seven ones.