

Challenge

Greatest and Least

Follow these steps to complete the table below:

Step 1: Roll 4 number cubes.

Step 2: Record the digits you rolled in the table below.

Step 3: Build the greatest and least numbers you can from the digits you rolled.

Step 4: Record the numbers in the appropriate columns and find the difference.

Repeat the steps 9 more times. Then answer questions 1–3.

Roll	Digits	Greatest Number	Least Number	Difference
1 st				
2 nd				
3 rd				
4 th				
5 th				
6 th				
7 th				
8 th				
9 th				
10 th				

1. Of all the numbers you rolled, which is greatest? _____

Which is least? _____

2. Which two numbers have the greatest difference? _____

3. Which two numbers have the least difference? _____

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Numbers will vary. Check students' work.

Roll	Digits	Greatest Number	Least Number	Difference
1 st				
2 nd				
3 rd				
4 th				
5 th				
6 th				
7 th				
8 th				
9 th				
10 th				

1. Of all the numbers you rolled, which is greatest? Answers will vary.

Which is least? Answers will vary.

2. Which two numbers have the greatest difference? Answers will vary.

3. Which two numbers have the least difference? Answers will vary.