1. Compare the values of each 7 in the number 771,548. Use pictures, numbers and words to explain.

2. Compare using >, <, or =. Place your answer inside the circle.
   a. 234 thousands + 7 ten-thousands  
      \[ \bigcirc \quad 241,000 \]
   b. 4 hundred thousands - 2 thousands  
      \[ \bigcirc \quad 200,000 \]
   c. 1 million  
      \[ \bigcirc \quad 4 \text{ hundred thousands} + 6 \text{ hundred thousands} \]
   d. 709 thousands - 1 hundred thousand  
      \[ \bigcirc \quad 708 \text{ thousands} \]
3. Norfolk, VA has a population of 242,628 people. Baltimore, MD has 376,865 more people than Norfolk. Charleston, SC has 496,804 less people than Baltimore.

   a. What is the total population of all three cities? Draw a tape diagram to model the word problem. Then solve the problem.

   b. Round to the nearest hundred thousand to check the reasonableness of your answer for the population of Charleston, SC.

   c. Record each city’s population in numbers, in words, and in expanded form.

   d. Compare the population of Norfolk and Charleston using >, <, or =.

   e. Eddie lives in Fredericksburg, VA, which has a population of 24,286. He says that Norfolk’s population is about 10 times as large as Fredericksburg’s population. Explain Eddie’s thinking.
Evaluating Student Learning Outcomes

A Progression Toward Mastery is provided to describe steps that illuminate the gradually increasing understandings that students develop on their way to proficiency. In this chart, this progress is presented from left (Step 1) to right (Step 4). The learning goal for each student is to achieve Step 4 mastery. These steps are meant to help teachers and students identify and celebrate what the student CAN do now, and what they need to work on next.
### A Progression Toward Mastery

<table>
<thead>
<tr>
<th>Assessment Task Item and Standards Addressed</th>
<th>STEP 1</th>
<th>STEP 2</th>
<th>STEP 3</th>
<th>STEP 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little evidence of reasoning without a correct answer.</td>
<td>(1 Point)</td>
<td>Evidence of some reasoning without a correct answer.</td>
<td>(2 Points)</td>
<td>Evidence of some reasoning with a correct answer or evidence of solid reasoning with an incorrect answer.</td>
</tr>
</tbody>
</table>

**1. 4.NBT.1**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The student is unable to reason about their relationship.</td>
<td>The student can reason about the relationship between two of the 7s, but cannot reason among all three and show a supporting picture or numbers.</td>
<td>The student is able to reason about the relationship of the 7s but their reasoning does not fully support their picture or numbers.</td>
</tr>
</tbody>
</table>

**2. 4.NBT.2 4.NBT.4**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>The student correctly answers one of the four parts.</td>
<td>The student correctly answers two of the four parts.</td>
</tr>
<tr>
<td></td>
<td>a. &gt;</td>
<td>b. &gt;</td>
</tr>
</tbody>
</table>

**3. 4.NBT.1 4.NBT.2 4.NBT.3 4.NBT.4 4.OA.3**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>The student correctly answers one of the four parts.</td>
<td>The student correctly answers two of the four parts.</td>
<td>The student answers three of the four parts correctly.</td>
</tr>
<tr>
<td></td>
<td>Total population of the three cities combined is 984,810.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### A Progression Toward Mastery

<table>
<thead>
<tr>
<th>Nearest hundred thousand is 100,000.</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Charleston, SC - One hundred twenty-two thousand, six hundred eighty-nine. 100,000 + 20,000 + 2,000 + 600 + 80 + 9.</td>
</tr>
<tr>
<td>Baltimore, MD - Six hundred nineteen thousand four hundred ninety-three. 600,000 + 10,000 + 9,000 + 400 + 90 + 3.</td>
</tr>
<tr>
<td>Norfolk, VA - Two hundred forty-two thousand six hundred twenty-eight. 200,000 + 40,000 + 2,000 + 600 + 20 + 8.</td>
</tr>
<tr>
<td>nearest hundred thousand is 100,000.</td>
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</tr>
<tr>
<td>c. Norfolk, 242,628 &gt; Charleston, 122,689</td>
</tr>
<tr>
<td>d. Eddie is correct to think that Norfolk’s population is 10 times that of Fredericksburg’s because Norfolk’s population is about 240,000 while Fredericksburg’s is about 24,000. 240,000 is ten times larger than 24,000.</td>
</tr>
</tbody>
</table>
1. Compare the values of each 7 in the number 771,548. Use pictures, numbers and words to explain.

The 7 in the hundred thousands place is ten times the value of the 7 in the ten thousands place.

\[ 70,000 \times 10 = 700,000 \]

2. Compare using >, <, or =. Place your answer inside the circle.

a. 234 thousands + 7 ten-thousands
   \[ \begin{array}{c}
   234,000 \\
   + 70,000 \\
   \hline
   304,000 \\
   \end{array} \] 
   \[ \bigcirc \] 241,000

b. 4 hundred thousands - 2 thousands
   \[ \begin{array}{c}
   400,000 \\
   - 2,000 \\
   \hline
   398,000 \\
   \end{array} \] 
   \[ \bigcirc \] 200,000

c. 1 million
   \[ \bigcirc \] 4 hundred thousands + 6 hundred thousands
   \[ \begin{array}{c}
   1,000,000 \\
   + 600,000 \\
   \hline
   1,600,000 \\
   \end{array} \]
d. 709 thousands - 1 hundred thousand
   \[ \begin{array}{c}
   709,000 \\
   - 100,000 \\
   \hline
   609,000 \\
   \end{array} \] 
   \[ \bigcirc \] 708 thousands
3. Norfolk, VA has a population of 242,628 people. Baltimore, MD has 376,865 more people than Norfolk. Charleston, SC has 496,804 less people than Baltimore.
   a. What is the total population of all three cities? Draw a tape diagram to model the word problem. Then solve the problem.

   Norfolk: \[242,628\]  
   Baltimore: \[\underline{376,865}\]  
   Charleston: \[\underline{496,804}\]  

   \[\begin{array}{c}
   242,628 \\
   +376,865 \\
   \hline
   619,493 \\
   496,804 \\
   \hline
   \end{array}\]
   Baltimore + Charleston = \[619,493 + 496,804 = 1,116,297\]

   b. Round to the nearest hundred thousand to check the reasonableness of your answer for the population of Charleston, SC.

   Baltimore rounded to the nearest hundred thousand is 300,000.
   If Charleston is 496,804 less, that can be rounded to 500,000.
   \[600,000 - 500,000 = 100,000\]
   The population of Charleston as 122,689 is a reasonable answer because 122,689 rounded to the nearest hundred thousand is 100,000.

e. Record each city's population in numbers, in words, and in expanded form.

   Baltimore: 619,493
   Six hundred nineteen thousand, four hundred ninety-three
   \[600,000 + 100,000 + 40,000 + 9,000 + 3,000 + 900 + 40 + 3\]

   Norfolk: 242,628
   Two hundred forty-two thousand, six hundred twenty-eight
   \[200,000 + 40,000 + 2,000 + 600 + 20 + 8\]

   Charleston: 122,689
   One hundred twenty-two thousand, six hundred eighty-nine
   \[100,000 + 20,000 + 2,000 + 600 + 80 + 9\]

d. Compare the population of Norfolk and Charleston using >, <, or =.

   Norfolk: 242,628
   Charleston: 122,689
   \[242,628 > 122,689\]

e. Eddie lives in Fredericksburg, VA, which has a population of 24,286. He says that Norfolk's population is about 10 times as large as Fredericksburg's population. Explain Eddie's thinking.

   Eddie's thinking is correct because Norfolk's population is 242,628 which can be rounded to 240,000. Fredericksburg's population can be rounded to 24,000. 240,000 is 10 times as large as 24,000.