How can you count on a 120 chart?

Fill in the missing numbers.

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**Math Toolkit**
- base-ten blocks

**Learning Target**
- Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.

**SMP** 1, 2, 3, 4, 5, 6, 7, 8
### Connect It

Write the missing numbers.

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Prepare for Counting to 120

1. Think about what you know about counting starting from any number. Fill in each box. Use words, numbers, and pictures. Show as many ideas as you can.

   In My Own Words

   My Pictures

   Examples

   Non-Examples

   one more

2. There are 5 counters. Draw one more counter. Now how many counters are there?

   ● ● ● ● ●
3. Write the missing numbers.

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Celia counts by ones up to 106. Then she continues counting. Which three numbers does she say next?

**Try It**

**Math Toolkit**
- 120 charts
- counters

**DISCUSS IT**
I noticed . . .
Celia counts by ones up to 106. Then she continues counting. Which three numbers does she say next?

Model It

Which three numbers come after 106?

Celia counts on 107, 108, 109. Start at 106 on the 120 chart. Count out loud. Circle the next three numbers in the row.
Connect It

1. How is your way like Model It? How is it different?

2. How is counting numbers greater than 100 like counting up to 10?

Apply It

Fill in the blanks.

3. Count by ones: 104, _____, _____, 107, _____

4. 1 more than 94 is _____.

5. 1 more than 110 is _____.
Fill in the blanks.

6 Count by ones: 97, _____, _____, _____, 101

7 Count by ones: 69, _____, _____, _____, 73

8 Count by ones: 80, _____, 82, _____, _____

9 1 more than _____ is 111.

10 1 more than 119 is _____.

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Practice Counting to 120

Look at the Example. Then solve problems 1–4.

**Example**

Count by ones. Use the chart.

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1 more than 80 is 81. 1 more than 87 is 88.

Count by ones: 78, 79, 80, 81, 82

1 Fill in the blanks. Use the chart.

1 more than 65 is _____.

1 more than 72 is _____.

2 Fill in the blanks. Use the chart.

Count by ones: 66, _____, 68, _____, ______

Count by ones: _____, 86, _____, 88, _____
3 Fill in the blanks. Use the chart.

1 more than 95 is _____.
1 more than 105 is _____.

1 more than 99 is _____.
1 more than 109 is _____.

1 more than 111 is _____.
1 more than 115 is _____.

4 Fill in the blanks. Use the chart.

Count by ones: 97, _____, 99, _____, _____, 102

Count by ones: _____, 103, 104, _____, _____

Count by ones: 115, _____, _____, 118, _____
Pietro has these star stickers in his collection. How many star stickers does he have?

Try It

Math Toolkit
- 120 charts

Discuss It
How did you count the stars?
Pietro has these star stickers in his collection.

How many star stickers does he have?

Count the stars.

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Count the groups of 10 and then count on.

11 groups of 10 is _____.

Add _____ more ones.

Pietro has _____ star stickers.
Connect It

1. How is your way like Model It? How is it different?

2. Buzz counts by ones from 110 like this:
   111, 112, 114, 115. Is he right? How do you know?

Apply It

3. Find the number pictured here.

   _____ groups of 10 and _____ ones

   Circle the total on the chart.
4. Gina counts these baseballs.  
How many baseballs does she count?  

______ baseballs

5. There are 80 shells in a box.  
There are more outside the box.  
How many altogether?  

______ shells

6. There are 110 pencils in a box.  
There are more outside the box.  
How many altogether?  

______ pencils
Practice Counting to 120

Look at the Example. Then solve problems 1–4.

Example
There are 90 counters in this box.
There are more outside the box.
How many in all?

Start at 90 and count on.

91, 92, 93, 94, 95, 96, 97
97 counters in all.

1 60 flowers are in the box.
There are more outside the box.
How many altogether?

______ flowers
2  Find the total pictured here.

____ groups of 10 and ____ ones

Circle the total on the chart below.

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3  Find the total pictured here.

____ groups of 10 and ____ ones

Put an X on the total on the chart above.

4  Bo made these cupcakes.

How many cupcakes did he make?

_____ cupcakes
Complete the Example. Then solve problems 1–3.

**Example**

Fill in the 2 blank spaces in the chart.

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Write the missing number for each shape in the chart.

- Square is 93.
- Triangle is ____.
- Circle is ____.

**Apply It**

1. Fill in the 3 blank spaces in the chart.

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</table>
2 Write the missing number for each shape in the chart.

- is _____.
- is _____.

- is _____.
- is _____.

3 Fill in the blank spaces in the chart.
Practice Counting to 120

Look at the Example. Then solve problems 1–4.

Example

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Write the missing number for the star in the chart.

\[\star\] \hspace{1cm} is 85.

Write the missing number for each shape in the chart.

\[\bigcirc\] \hspace{1cm} is _____ . \hspace{1cm} \[\bigtriangleup\] \hspace{1cm} is _____ .
2. Write the missing number for each shape in the chart.

- Blue square is ____.  
- Pentagon is ____.  
- Pink heart is ____.  

3. Write the missing numbers in the chart.

4. Draw an X on the number that is 1 more than 99.
Apply It

Solve problems 1–11.

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<td>114</td>
<td>115</td>
<td>116</td>
<td>117</td>
<td>118</td>
<td>119</td>
<td>120</td>
</tr>
</tbody>
</table>

Fill in the blanks. Use the chart.

1. 1 more than 100 is _____.
2. 1 more than 115 is _____.
3. 1 more than 117 is _____.
4. 1 more than 119 is _____.
5. 1 more than 99 is _____.
6. 1 more than 111 is _____.

7. 104, _____, 106, _____, 108, _____
8. 98, _____, _____, _____, 102
9. 114, 115, _____, _____, _____
10 Gene has 60 cookies in a box. There are some more on the tray. How many cookies in all?

____ cookies

11 Kadeem draws some faces.

How many faces?
Circle.

74 faces
84 faces
94 faces
Rosa carries 24 books. Ryan carries 37 books. Who carries more books? Who carries fewer?

Write the names.

_________ carries more books than _________.

_________ carries fewer books than _________.

Try It

Math Toolkit

• base-ten blocks

Rosa

Ryan

Learning Target

• Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.

SMP 1, 2, 3, 4, 5, 6, 7
Connect It

There are 28 soccer balls.
There are 31 footballs.

Draw to compare the number of balls.

<table>
<thead>
<tr>
<th>soccer balls</th>
<th>footballs</th>
</tr>
</thead>
</table>

Fill in the blanks.

There are more ____________ than ____________.
There are fewer ____________ than ____________.
Prepare for Comparing Numbers

1. Think about what you know about comparing numbers. Fill in each box. Use words, numbers, and pictures. Show as many ideas as you can.

   Examples

   fewer

   Examples

   Examples

   Examples

2. Circle the group with fewer books.
Solve the problem.

There are 34 apples. There are 27 bananas.

Draw to compare the number of fruits.

apples | bananas

Fill in the blanks.
There are fewer _____________ than ______________.
There are more _____________ than ______________.
Nora picks 52 apples. Nick picks 25 apples. Who picks more apples?

**Try It**

**Math Toolkit**
- base-ten blocks
- counters
- 10-frames
- tens place-value mats

**DISCUSS IT**
How can thinking about tens and ones help?
Nora picks 52 apples. Nick picks 25 apples.
Who picks more apples?

Model It

Compare. 52 \( ? \) 25

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

Compare tens.

5 tens is greater than 2 tens.

You can use the greater than symbol (\( > \)):

5 tens \( > \) 2 tens

52 \( > \) 25

_________ picks more apples than _________ .
Connect It

1. How is your way like Model It? How is it different?

2. How did using base-ten blocks help you compare 52 and 25 to find the greater number?

Apply It

3. Dave has 13 crayons. Ari has 21 crayons. Compare. 21 ? 13

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

21 13
4 Roberto has 48 fish. Rena has 24 fish. Who has more fish? Compare. 48 \(\bigcirc\) 24

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

\(\bigcirc\) tens is greater than \(\bigcirc\) tens.

48 \(\bigcirc\) 24

\(\bigcirc\) has more fish than \(\bigcirc\).

5 Compare 45 and 63. Which number is greater?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

\(\bigcirc\) tens is greater than \(\bigcirc\) tens.

\(\bigcirc\) \(\bigcirc\)
Practice Comparing Numbers

Look at the Example. Then solve problems 1–4.

**Example**

Fran finds 14 shells.
Pete finds 31 shells.

Compare. 31 ? 14

31 > 14

3 tens is greater than 1 ten.

1. Compare 65 and 42.
   Which number is greater?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

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<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

   ____ tens is greater than ____ tens.

   ____ > ____
2. Compare 29 and 88.
   Which number is greater?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

   ____ tens is greater than ____ tens.

   ____ ○ ____

3. Compare 37 and 47.
   Which number is greater?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
</tr>
</tbody>
</table>

   ____ tens is greater than ____ tens.

   ____ ○ ____

4. Find a number greater than 62.
   Write it in the blank.

   ____ > 62
Gabe collects 35 rocks.
Rose collects 39 rocks.
Who collects fewer rocks?

Try It

Math Toolkit
- base-ten blocks
- 120 charts
- tens place-value mats

DISCUSS IT
I found my answer by . . .
Gabe collects 35 rocks. Rose collects 39 rocks. Who collects fewer rocks?

Model It

Compare.

39 ? 35

Compare the tens. The tens are the same.

Compare the ones.

35 39

5 ones is less than 9 ones.
You can use the less than symbol (<):

5 ones < 9 ones

________ collects fewer rocks than ________.

Connect It

1 How is your way like Model It? How is it different?
2 Buzz collects 28 rocks. Boom collects 41 rocks. Buzz says he has more rocks than Boom because $8 > 1$. Do you agree? Why or why not?

**Apply It**

3 Compare 62 and 67. Which number is less?

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2</td>
</tr>
</tbody>
</table>

_____ ones is less than _____ ones.

_____ < _____

4 Compare 98 and 94. Which number is less?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

_____ ones is less than _____ ones.

_____ < _____
5 Compare 52 and 57. Which number is less?

_____ ones is less than _____ ones.

_____ < _____

6 Compare 89 and 83. Which number is less?

_____ ones is less than _____ ones.

_____ < _____

7 Find two numbers with 5 tens. One number is less than 54. The other number is greater than 54. Fill in the blanks.

_____ < 54  _____ > 54
Practice Comparing Numbers

Look at the Example. Then solve problems 1–5.

**Example**
Bob has 43 cards.
Ami has 48 cards.
Compare. 43 \( ? \) 48

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

Tens are the same. Compare ones.
3 ones is less than 8 ones.

43 \( < \) 48

1. Compare 72 and 77.
   Which number is less?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

   _____ ones is less than _____ ones.

   _____ < _____

2. Compare 64 and 69.
   Which number is less?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
</table>

   _____ ones is less than _____ ones.

   _____ < _____
3. Compare 95 and 93. Which number is less?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

_____ ones is less than _____ ones.

_____<_____

4. Compare 52 and 56. Which number is less?

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

_____ ones is less than _____ ones.

_____<_____

5. Find two numbers with 6 tens.
   One number is less than 65.
   The other number is greater than 65.
   Fill in the blanks.

_____<65      ____>65
Complete the Example. Then solve problems 1–5.

Example
Jen has 48 coins. Kim has 14 coins. Who has more coins?

48 14

4 tens is greater than 1 ten.

48  14    ________ has more coins.

Apply It

1. Anita packs 46 books. James packs 27 books. Who packs fewer books?

Anita packs 46 books. James packs 27 books.

Who packs fewer books?

46 27

____ tens is less than ____ tens.

___________ packs fewer books than ____________

27  46
2. Fill in the blanks. Then write <, >, or = in the circle.

___ tens ___ ones   ___ tens ___ ones

85   85

3. Fill in the blanks. Then write <, >, or = in the circle.

7 tens 2 ones    7 tens 2 ones

4. Write <, >, or = in the circle.

23   27

69   64

5. Write <, >, or = in the circle.

74   74

96   99
Practice Comparing Numbers

Look at the Example. Then solve problems 1–6.

Example
One box holds 32 crayons. Another box holds 25 crayons.
Compare.

2 tens is less than 3 tens.

25 < 32

1. Fill in the blanks. Then write <, >, or = in the circle.

   _______ tens _______ ones    _______ tens _______ ones

   47 44

2. Fill in the blanks. Then write <, >, or = in the circle.

   _______ tens _______ ones    _______ tens _______ ones

   70 58
3 Fill in the blanks. Then write <, >, or = in the circle.

3 tens 6 ones 3 tens 9 ones

___  __

4 Write <, >, or = in the circle.

91  91
85  82

5 Write <, >, or = in the circle.

54  45
36  63

6 Write <, >, or = in the circle.

26  29
41  40
Apply It

Solve problems 1–6.

1. Fill in the blanks. Then write <, >, or = in the circle.

   
   tens  ones  tens  ones

   _____  _____    _____  _____

   93  48

2. Compare. Circle the correct symbol.

   1 ten 6 ones  6 tens 0 ones

   16 ? 60

   <  >  =

3. Write <, >, or = in the circle.

   42  45  29  29  50  36
4 Write \( <, >, \) or \( = \) in the circle.

\[
\begin{align*}
74 & \quad 74 \\
85 & \quad 87 \\
63 & \quad 28
\end{align*}
\]

5 Write \( <, >, \) or \( = \) in the circle.

\[
\begin{align*}
71 & \quad 65 \\
34 & \quad 39 \\
48 & \quad 48
\end{align*}
\]

6 Write \( <, >, \) or \( = \) in the circle.

\[
\begin{align*}
54 & \quad 59 \\
83 & \quad 83 \\
60 & \quad 47
\end{align*}
\]