



Name _____ Date _____



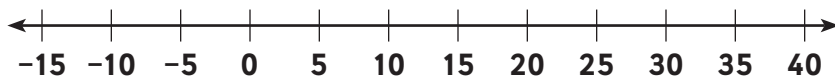
Skills Maintenance

Inequalities

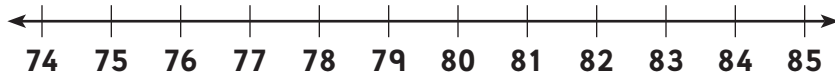
Activity 1

Draw the inequalities on the number lines below.

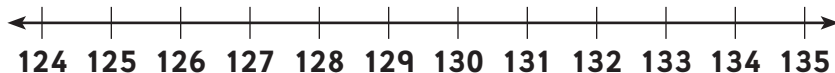
1. $-5 < x$



2. $77 \leq y$



3. $z < 125$



Rate

Activity 2

Simplify and solve the rate problems.

1. 6 bags of chips for \$8, 9 bags for x

$x =$ _____

2. 6 bottles of cola for \$4, 8 bottles for y

$y =$ _____

3. 3 loaves of bread for \$3, 1 loaf for z

$z =$ _____

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Apply Skills
Double Inequalities

Activity 1

Write double inequalities. Then draw them on a number line.

Model	<p>$x < 5$ and $x > 0$ The double inequality is: $0 < x < 5$. On a number line, the inequality looks like this:</p>
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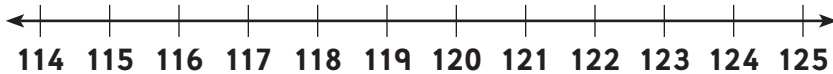
1. $10 > x$ and $x > 4$ The double inequality is _____ .
 On a number line, the inequality looks like this:



2. $x < 100$ and $x > 50$ The double inequality is _____ .
 On a number line, the inequality looks like this:



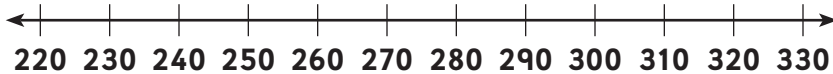
3. $125 \geq x$ and $118 \leq x$ The double inequality is _____ .
 On a number line, the inequality looks like this:



4. $x > 70$ and $x \leq 120$ The double inequality is _____ .
 On a number line, the inequality looks like this:



5. $x \geq 220$ and $x < 330$ The double inequality is _____ .
 On a number line, the inequality looks like this:





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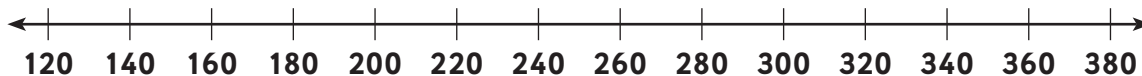


Problem-Solving Activity

Using Inequalities in the Real World

Look at the general number and word statements that use double inequalities. For each problem, write a sentence that represents a situation that could be described with the general statement. Then show the inequality on a number line.

1. $125 < m < 365$, where m represents money in dollars



2. $5 \leq w < 15$, where w represents work hours



3. $45 > b \geq 25$, where b represents number of boys



Unit 3



mBook Reinforce Understanding

Use the mBook *Study Guide* to review lesson concepts.