

Name _____ Date _____



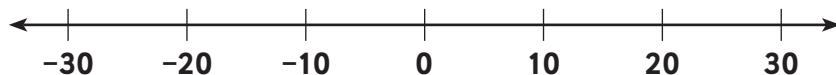
Skills Maintenance

Inequalities

Activity 1

Show the range of values on the number lines that make the inequality true.

1. $x \leq 0$



2. $b < 293$



3. $a \geq -10$



4. $a \geq 39$



5. $c > -5$





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Apply Skills

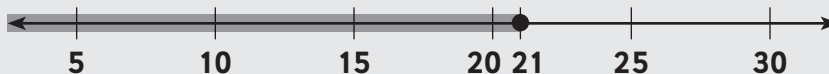
Translating Inequalities Using $>$ and $<$

Activity 1

Read each word problem. Choose a variable for the inequality. Write the inequality, then graph it on a number line.

Model

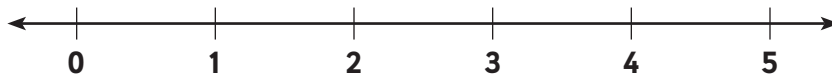
Blake has a younger sister. Blake is 21.
The variable s represents the sister's age.
The inequality is $s < 21$.



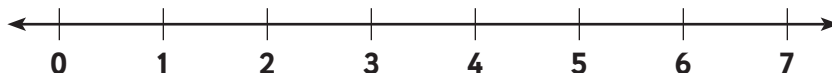
- Todd has an older sister who is 16.
The variable _____ represents _____.
The inequality is _____.



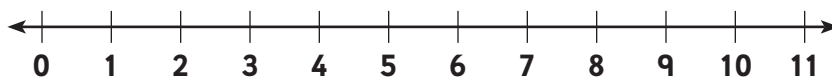
- Bev is in a higher grade at school than Billy. Billy is in the third grade.
The variable _____ represents _____.
The inequality is _____.



- Bob is taller than Bud. Bud is 6 feet tall.
The variable _____ represents _____.
The inequality is _____.



- Kyle has more CDs than his sister. His sister has 10 CDs.
The variable _____ represents _____.
The inequality is _____.



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Activity 2**Select the best inequality for each word statement.**

- Becca scored more points than Patty. Patty scored 10 points.
If b = Becca's score:
 - $b > 10$
 - $b < 10$
 - $10 > b$
- Tom got a 95 on the quiz. Ted got a higher score than Tom.
If x = Ted's score:
 - $95 > x$
 - $x < 95$
 - $x > 95$
- Lynda is older than Suzy. Lynda is 15.
If y is Suzy's age:
 - $y > 15$
 - $y < 15$
 - $15 < y$
- The temperature rose above 40.
If t is the temperature:
 - $t > 40$
 - $40 > t$
 - $t < 40$



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**Problem-Solving Activity****Decreasing and Increasing Rates**

Read each word problem. Then write a rate proportion with a variable to solve the problem. Remember to think about what you are multiplying by when you solve the proportion.

1. If Bobbi can run 4 miles in an hour, how long does it take her to run 1 mile?

2. Elizabeth likes to read. She prides herself on being able to read 240 pages in 2 hours. How long does it take Elizabeth to read 60 pages?

3. The captain of the soccer team scored 24 goals in 6 games. At this rate, how many goals does he score per game?

4. If it takes you 6 hours to drive 360 miles, how many miles can you drive in an hour?

**Reinforce Understanding**

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