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## Skills Maintenance

Using Variables

## Activity 1

Find the value of the variable in each equation. Write the answer above the variable.

1. $6 \cdot 80=$ $\qquad$ $y$
2. $7 \cdot 8=$ $\qquad$ m
3. $40 \div$ $\qquad$ $=20$
4. $\qquad$ $-4=55$
5. $5 \cdot 11=$ $\qquad$
6. $70-30=$ $\qquad$
7. $\qquad$ $+20=32$
8. $6 \cdot 9=$ $\qquad$
9. $30 \div 10=$ $\qquad$
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## $\stackrel{\%}{=} \div$ Apply Skills Inequalities

## Activity 1

Use words to describe what the symbols mean in the inequalities.


1. The inequality $x<4$ means $x$ is $\qquad$ .
2. The inequality $y \leq 3$ means $y$ is $\qquad$ .
3. The inequality $5 \geq z$ means 5 is $\qquad$ .
4. The inequality $6>w$ means 6 is $\qquad$ .
5. The inequality $m<14$ means $m$ is $\qquad$ .
6. The inequality $s \geq 200$ means $s$ is $\qquad$ .
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## Activity 2

Draw each of the inequalities on the number lines provided. Remember to use an open circle when you use the symbols $>$ or <, and to fill in the circle when you use the symbols $\geq$ or $\leq$.


1. $y>7$

2. $z \geq 10$

3. $8>y$

4. $y \geq 7$

5. $m \leq 31$

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## Problem-Solving Activity <br> Rate

Find the rate for each problem by answering these questions: What is the comparison? What is the rate proportion?

1. Williams Building Company builds new houses in the Cincinnati area. They just finished a project that involved 45 new homes. Part of their work involves painting the inside of the house. A gallon of paint costs $\$ 10$. It takes 2 gallons of paint for 100 square feet of wall space. The inside of the normal house needs 400 square feet to
2. A fire hose can be used to spray water on a large area. The hose can spray 100 gallons of water in 4 minutes. It can take over 2 hours to put out a fire in a small house. How many gallons of water will firefighters use in 20 minutes?
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3. Shandra is the starting guard on the Wildcats basketball team. She is almost 6 feet tall, and she has scored 60 points in the first 3 games. How many points do you expect her to score in 15 games?
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4. Carlo works at a factory that makes potato chips. He works six hours a day loading boxes onto trucks. The factory can produce 1 box filled with bags of potato chips every 4 minutes. How many boxes filled with chips does the factory make in 20 minutes?
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## mBook Reinforce Understanding

Use the mBook Study Guide to review lesson concepts.

