# Solution Sets

**Home Link 6-2**

NAME DATE TIME

SRB 210-211

1. The solution set is {all numbers less than 7}.
Circle inequalities with this solution set.

$j > 4$ $7 < j$ $7 > j$ $j < 7$

2. **a.** The solution set is {all numbers greater than 10}.
Circle inequalities with this solution set.

$m + 10 < 11$ $11 < m + 1$ $6 > 5 + m$ $6 > 5m$

**b.** Explain how you found your answer for Problem 2a.

Sample answer: I tried numbers greater than 10 to see which inequalities worked.

3. Record the solution sets for the equations below.

**a.** $3x = 45$ Solution set: {15}

**b.** $x + 138 = 204$ Solution set: {66}

4. Write the letter of the solution set that matches each number sentence.

| | |
|---|---|
| $x \div 4 = 8$ | G |
| $\frac{4}{x} = 8$ | D |
| $10 - x = 7$ | F |
| $3x + x = 16$ | H |
| $5x = 0$ | B |
| $12 * x = x * 12$ | A |
| $0.5 = \lvert x \rvert$ | E |
| $x - 5 = x$ | C |

**A.** {All numbers}

**B.** {0}

**C.** { }

**D.** $\left\{\frac{1}{2}\right\}$

**E.** $\left\{-\frac{1}{2}, \frac{1}{2}\right\}$

**F.** {3}

**G.** {32}

**H.** {4}

## Practice

Divide.

5. $8.8 \div 2 =$ 4.4

6. $0.95 \div 5 =$ 0.19

7. $98 \div 0.2 =$ 490

8. $198 \div 0.2 =$ 990

 6.NS.3, 6.EE.5, 6.EE.6