## Lesson 6 Homework Practice

## Inequalities

Write an inequality for each sentence.

- 1. More than 3400 people attended the flea market. p > 3400
- 2. Her earnings at \$11 per hour were no more than \$121.  $11h \le 121$
- 3. The 10-km race time of 84 minutes was at least twice as long as the winner's time.  $84 \ge 2w$
- **4.** A savings account increased by \$70 is now more than \$400. s + 70 > 400

For the given value, state whether each inequality is *true* or *false*.

5. $9 - x > 3, x = 6.5$ false	<b>6.</b> $9.5 + n < 19, n = 10$ <b>false</b>
7. $3k < 27 \frac{1}{2}, k = 8$ true	<b>8.</b> $21 \le 4c, c = 5.2$ <b>false</b>
<b>9.</b> $\frac{x}{4} \le 8, x = 32$ <b>true</b>	<b>10.</b> $\frac{9}{c} > 2$ , $c = 3\frac{1}{2}$ <b>true</b>

Graph each inequality on a number line.



- 24. The average time a human being can hold their breath underwater is 1 minute. A hippo can hold its breath underwater for at least 5 times as long as a human. Write an inequality that represents how long a hippo can hold its breath underwater.  $t \ge 5$
- 25. In the first hour of a charity auction, \$4800 was raised. This was at most \$1200 more than was raised in the second hour of the auction. Write an inequality that represents the amount raised in the second hour.  $a \leq 3600$