# 8-6 Skills Practice: *Inequalities*             **Math8**

**1. Write an inequality for each sentence.**

    **a.** Applicants for a job with less than 5 years of experience must take a test.
        _____

    **b.** The home football team needs more than 6 points to win.
        _____

    **c.** The minimum voting age is 18.
        _____

    **d.** You must answer at least 10 questions correctly to stay in the game.
        _____

    **e.** A tip at a restaurant of no less than 10% is considered acceptable.
        _____

    **f.** The cost of a purchase including tax is no more than $75.
        _____

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

    **a.** $9 + b < 16, \ b = 8$       **b.** $14 - f > 8, \ f = 5$       **c.** $-5t < 24, \ t = 5$

    **d.** $51 \leq 3m, \ m = 17$       **e.** $\frac{z}{5} \leq 7, \ z = 40$       **f.** $\frac{-28}{d} > 7, \ d = -4$

**3. Graph each inequality on a number line.**

    **a.** $y > 5$               **b.** $h < 5$               **c.** $c \leq 1$

    **d.** $t \geq 2$                **e.** $x \geq 4$               **f.** $r < 94$

**4. Use the table that shows the literacy rate in several countries.**

    **a.** In which country or countries is the literacy rate less than 90%?

    **b.** In which country or countries is the literacy rate at least 88%?

| Country | Literacy Rate |
|---------|---------------|
| Albania | 87% |
| Jamaica | 88% |
| Panama | 93% |
| Senegal | 40% |

**5.** Colin's time in the 400-meter run was 62 seconds. Alvin was at least 4 seconds ahead of Colin. Write an inequality for Alvin's time in the 400-meter run.

**6.** Before Valerie and her two friends left Mel's Diner, there were more than 25 people seated. Write an inequality for the number of people seated at the diner after Valerie and her two friends left.