

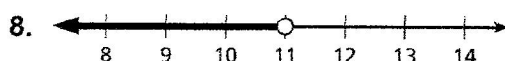
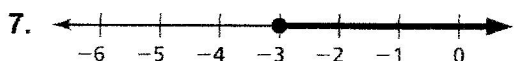
# Chapter 8

## Cumulative Practice

Write the word sentence as an equation or inequality.

1. A number  $p$  multiplied by  $-4$  is no more than 12.
2. The difference of 5 and a number  $g$  is greater than 2.
3. A number  $x$  divided by 18 is equal to 4.6.
4. The difference of a number  $c$  and  $-2$  is 10.
5. The product of a number  $b$  and  $-1.6$  is less than  $-9.6$ .
6. A gym membership costs \$60 per month. A class at the gym costs \$10 per month. Write an equation that represents the total cost  $y$  of taking  $x$  classes at the gym each month.

Write an inequality and a word sentence that represent the graph.



9. A laser tag center has a sign posted that states "Must be 6 years or older to play." Write an inequality that represents the possible ages of laser tag players.

Graph the inequality on a number line.

10.  $y \leq -3$                       11.  $n > 2.4$                       12.  $a \geq \frac{3}{2}$

13. The record for the 50-yard dash at your school is 9.6 seconds. Write an inequality that represents the possible speeds (in feet per second) that would break the record.

Solve the equation or inequality. Graph the solution of each inequality.

14.  $-5k \geq -10$                       15.  $6h - 3 = 21$                       16.  $\frac{r}{3} \geq 11$

17.  $m + 12 > 5$                       18.  $\frac{3}{4} - d = 2$                       19.  $2u = 4$

20. An arcade uses tokens for its games. You can buy 75 tokens for \$15. Write and solve an equation to find the price of one token.

# 8.4 Puzzle Time

## What Did Ernie Say When Bert Asked Him If He Wanted Ice Cream?

Write the letter of each answer in the box containing the exercise number.

Solve the inequality.

1.  $8x - 11 < 13$

2.  $3x - 5 \geq 16$

3.  $2 - \frac{x}{4} \geq 4$

4.  $\frac{6}{7} > -2x - \frac{8}{7}$

5.  $4.6 > 1.2 + 1.7x$

6.  $8(x - 4) \geq 40$

7.  $-30 \leq -\frac{3}{4}(x + 4)$

8.  $-6.8 \geq 0.8(x + 1)$

**Answers**

R.  $x < 2$

T.  $x \leq 36$

E.  $x \geq 7$

S.  $x \leq -9.5$

B.  $x > -1$

U.  $x < 3$

R.  $x \leq -8$

E.  $x \geq 9$

8	1	3	6		4	2	5	7
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