Lesson 8.7
17. In Rachel's reading class, 8 students chose mystery as their favorite type of book. This amount represents $\frac{2}{5}$ of the entire class. The equation $\frac{2}{5}s = 8$ can be used to find the total number of students $s$ in Rachel's class. How many students are in Rachel's reading class?

20 students

18. There are 9 raisin bagels in a bin. This amount represents $\frac{3}{8}$ of all the bagels in the bin. The equation $\frac{3}{8}b = 9$ can be used to find the total number of bagels $b$ in the bin. How many bagels are in the bin?

24 bagels

Lesson 8.8
Determine whether the given value of the variable is a solution of the inequality.

19. $c > 2.5; c = 3$ 20. $y \leq -7; y = -4$ 21. $n \geq -\frac{1}{2}; n = 0$

solution not a solution solution

Lesson 8.9
Write an inequality for the word sentence.

22. The weight $w$ is at least 4 pounds.

$w \geq 4$

23. The temperature $t$ is less than 0 degrees.

$t < 0$

Lesson 8.10
Graph the inequality.

24. $x \geq 5$

25. $m < 2$

26. $p > -3$

27. $h \leq -1\frac{1}{2}$