## 3.4-3.5 Quiz



Solve the inequality. Graph the solution. (Section 3.4)

**1.** 
$$2m + 1 \ge 7$$

**2.** 
$$\frac{n}{6} - 8 \le 2$$

3. 
$$2 - \frac{j}{5} > 7$$

**4.** 
$$\frac{5}{4} > -3w - \frac{7}{4}$$

Write the word sentence as an inequality. Graph the inequality. (Section 3.4)

**5.** A number h is greater than 1 and less than 6.

**6.** A number q is less than or equal to -3 or at least 2.

Solve the inequality. Graph the solution, if possible. (Section 3.4)

7. 
$$7 > -2y + 5 > -3$$

**8.** 
$$3z + 2 \le -10$$
 or  $z - 7 \ge -5$ 

**9.** 
$$|2b-1| \le 3$$

**10.** 
$$-4|r-1|+7<-9$$

Graph the inequality in a coordinate plane. (Section 3.5)

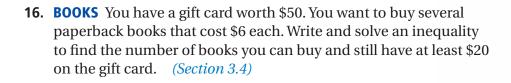
**11.** 
$$y \ge -8$$

**12.** 
$$x < 6$$

**13.** 
$$x + y > 5$$

**14.** 
$$4x - 4y \le 8$$

**15. PARTY** You buy lunch for guests at a party. You can spend no more than \$100. You will spend \$20 on beverages and \$10 per guest on sandwiches. Write and solve an inequality to find the number of guests you can invite to the party. *(Section 3.4)* 



**17. SUPPLIES** You have \$6 to spend on pens and notebooks. Pens cost \$0.75 each and notebooks cost \$1.50 each. Write and graph an inequality that represents the numbers of pens and notebooks you can buy. Identify and interpret a solution of the inequality. *(Section 3.5)* 

