

## 11-7 Test Review

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation.**

1)  $1 = \frac{n}{3} + 5$

2)  $-4(v - 8) = 8$

3)  $4(1 + 3x) - 4 = 96$

4)  $-56 = 4(-1 - 4b) - 4(7b + 2)$

5)  $4x - 14 = -8 - 2x$

6)  $-4(-6 + 5x) = 3x - 22$

7)  $-2x - 7(6x + 4) = -336$

8)  $5x - 2(3 - 3x) = 82$

9)  $-(4 - 8m) + 2(-4m + 7) = 13$

10)  $-8 = -4(m - 4) + 4(6 - 3m)$

11)  $5 + 3x = 2 + 3x$

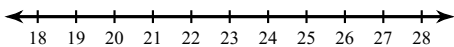
12)  $5v - 1 = -8 + 6v$

13)  $8b - 3 = -13 + 6b$

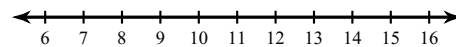
14)  $1 - 6n + 3 = 4 - 6n$

**Solve each inequality and graph its solution.**

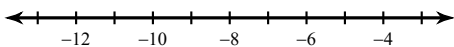
15)  $1 \geq \frac{x + 2}{22}$



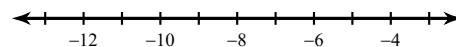
16)  $3 + \frac{b}{3} > 6$



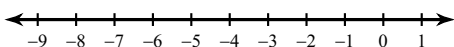
17)  $102 \leq 6(3 - 2v)$



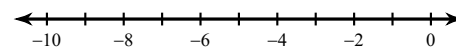
18)  $-2(1 - 6v) > -98$



19)  $-8n + 34 < 3(2 - 5n)$



20)  $-8 + 3m \geq -4(1 - m)$



## Answers to 11-7 Test Review (ID: 1)

1)  $\{-12\}$

2)  $\{6\}$

3)  $\{8\}$

4)  $\{1\}$

5)  $\{1\}$

6)  $\{2\}$

7)  $\{7\}$

8)  $\{8\}$

9) No solution.

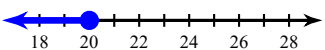
10)  $\{3\}$

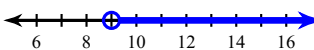
11) No solution.

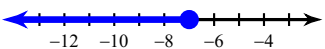
12)  $\{7\}$

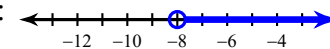
13)  $\{-5\}$

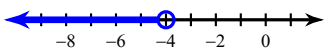
14)  $\{\text{All real numbers.}\}$

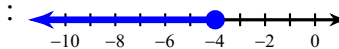
15)  $x \leq 20$  :  A number line with tick marks every 2 units from 18 to 28. A solid blue circle is at 20, and a blue arrow points to the left from this circle.

16)  $b > 9$  :  A number line with tick marks every 2 units from 6 to 16. An open blue circle is at 9, and a blue arrow points to the right from this circle.

17)  $v \leq -7$  :  A number line with tick marks every 2 units from -12 to -4. A solid blue circle is at -7, and a blue arrow points to the left from this circle.

18)  $v > -8$  :  A number line with tick marks every 2 units from -12 to -4. An open blue circle is at -8, and a blue arrow points to the right from this circle.

19)  $n < -4$  :  A number line with tick marks every 2 units from -8 to 0. An open blue circle is at -4, and a blue arrow points to the left from this circle.

20)  $m \leq -4$  :  A number line with tick marks every 2 units from -10 to 0. A solid blue circle is at -4, and a blue arrow points to the left from this circle.