

Name _____

5-1B Lesson Master

Questions on SPUR Objectives
See Student Edition pages 367–371 for objectives.

VOCABULARY

1. What is the *intersection* of two sets?

2. What is the *union* of two sets?

REPRESENTATIONS Objective I

In 3–5, write the inequality for the set of numbers that is graphed on the number line.



3. _____



4. _____



5. _____

In 6–9, solve the inequality and graph its solution set on the number line.

6. $-3r + 11 < 20$ _____

7. $4t - (2 - t) \geq 18$ _____



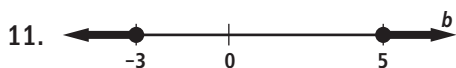
8. $-20 + 6w \leq 40$ _____

9. $13 < y + 3(-4y + 8)$ _____



In 10 and 11, write the compound inequality for the set of numbers that is graphed on the number line.





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In 12–21, graph the indicated set of points on the number line.

12. $x \leq 8$



13. $u > -6$



14. $n < 0$ and $n \geq -7$



15. $d > -4$ or $d < -8$



16. $-2 \leq s \leq 3$



17. $7 \geq y > -3$



18. g is from 1 to 6



19. c is between -4 and 4



20. $\{p \mid p < 6\} \cap \{p \mid p > -5\}$



21. $\{y \mid y < 6\} \cup \{y \mid y \geq 10\}$



22. In some hospitals, newborns weighing less than 5 pounds are put on special watch. Graph these weights w on the number line below.



23. Give the CAS output when each of the sentences is entered, assuming the variable is first cleared. Then graph the solution set on the number line.

a. $m \geq -2$ _____



b. $4 \leq s \leq 10$ and $s \leq 6$ _____



c. $v < -3$ and $v > 6$ _____



d. $n > 3$ and $n < 12$ _____

