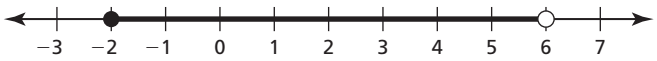
Name _____ Date _____

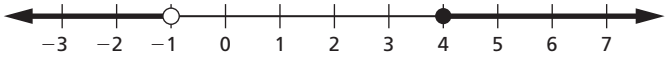
2.5 Practice B

In Exercises 1–3, write a compound inequality that is represented by the graph.

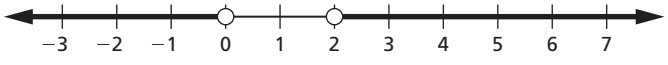
1.



2.



3.



In Exercises 4 and 5, write the sentence as an inequality. Graph the inequality.

4. A number d is less than or equal to 2 and greater than or equal to -2.

5. A number m is no less than -1 or less than or equal to $-5\frac{1}{3}$.

In Exercises 6–11, solve the inequality. Graph the solution.

6. $-2 \geq 10 - 3g \geq -8$

7. $-4 < 2p + 8 < 18$

8. $-13 > q + 2$ *or* $5q \geq -15$

9. $15 < -v - 8$ *or* $3v + 4 \geq 10$

10. $-6 < \frac{1}{3}(6y + 12) < 14$

11. $42 < 6(3 - k)$ *or* $\frac{1}{2}(14k - 8) \geq 10$

12. A tuxedo rental shop rents tuxedos with sleeve lengths from 20 inches to 40 inches. The shop says the length of the sleeves should be about 1.2 times a person's arm length. Write and solve a compound inequality that represents the arm lengths of people the shop does *not* provide tuxedos for.

In Exercises 13–16, solve the inequality. Graph the solution, if possible.

13. $8w - 5 > 12w + 3$ *or* $3 > -\frac{3}{4}w + 9$

14. $2t - 15 < 3t - 17$ *and* $t - 13 < -19$

15. $3d + 17 \leq 11$ *or* $-4d + 4 < -3d + 24$

16. $4x - 9 < 9x + 6 < 4x + 16$

17. Write a real-life story that can be modeled by the graph.