



1-6 Additional Practice

Compound Inequalities

Write a compound inequality that represents each phrase. Graph the solutions.

- all real numbers that are less than -3 or greater than or equal to 5
- The time a cake must bake is between 25 minutes and 30 minutes, inclusive.

Solve each compound inequality. Graph your solutions.

3. $5 < k - 2 < 11$

4. $-4 > y + 2 > -10$

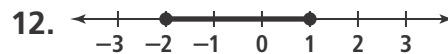
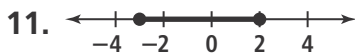
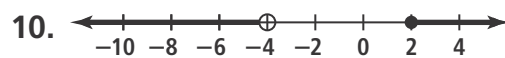
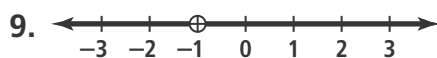
5. $6b - 1 \leq 41$ or $2b + 1 \geq 11$

6. $5 - m < 4$ or $7m > 35$

7. $3 < 2p - 3 \leq 12$

8. $3 > \frac{11+k}{4} \geq -3$

Write a compound inequality that each graph could represent.



- A family is comparing different car seats. One car seat is designed for a child up to and including 30 lb. Another car seat is designed for a child between 15 lb and 40 lb. A third car seat is designed for a child between 30 lb and 85 lb, inclusive. Model these ranges on a number line. Which car seats are appropriate for a 32 -lb child?