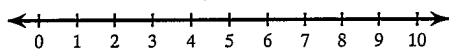


## S4 Solving Multi-Step and Compound Inequalities

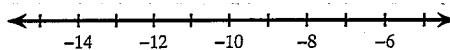
Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each inequality and graph its solution. Then give the solution in interval notation.

1)  $82 > -4 + 2(5x + 3)$

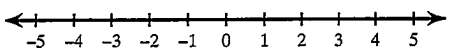


2)  $-96 \leq -2(-7b - 8)$

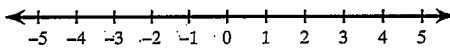


Solve each inequality and graph its solution.

3)  $9 < -\frac{7}{3}k + \frac{7}{3} - \frac{3}{2}$

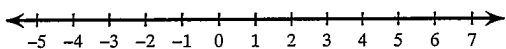


4)  $-3 > b - \frac{7}{2} - 1$

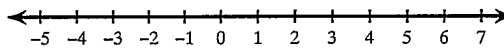


Solve each compound inequality and graph its solution. Then give the solution in interval notation.

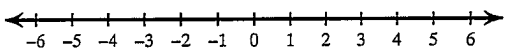
5)  $-3 \leq -5b + 7 \leq 2$



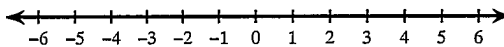
6)  $-45 \leq -3 - 7m \leq 18$



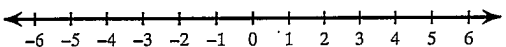
7)  $29 \geq -8x - 3 > -27$



8)  $-\frac{21}{20} \leq \frac{9}{4}p - \frac{3}{2} < \frac{9}{4}$



9)  $-\frac{41}{16} \leq -\frac{7}{4}m + \frac{1}{2} < -\frac{29}{12}$



10)  $-\frac{53}{12} < \frac{5}{3}r - \frac{11}{4} \leq -\frac{19}{36}$

