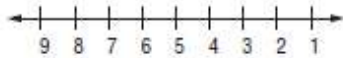


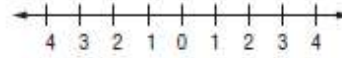
## Skills Practice: Solving Inequalities

Solve each inequality. Describe the solution set using interval notation. Then, graph the solution set on a number line.

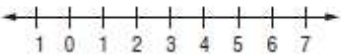
1.  $\frac{z}{-4} \geq 2$



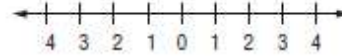
2.  $3a + 7 \leq 16$



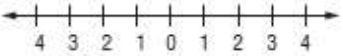
3.  $16 < 3q + 4$



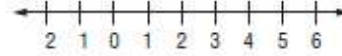
4.  $20 - 3s > 7s$



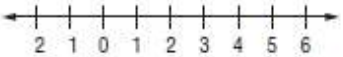
5.  $3x \geq -9$



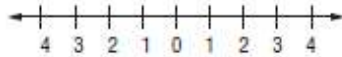
6.  $4b - 9 \leq 7$



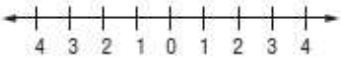
7.  $2z < -9 + 5z$



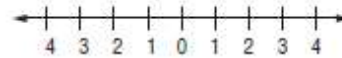
8.  $7f - 9 > 3f - 1$



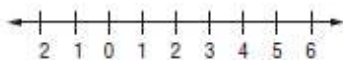
9.  $-3s - 8 \leq 5s$



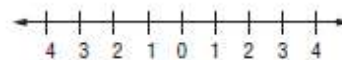
10.  $7t - (t - 4) \leq 25$



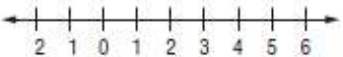
11.  $0.7m + 0.3m \geq 2m - 4$



12.  $4(5x + 7) \leq 13$



13.  $1.7y - 0.78 > 5$



14.  $4x - 9 > 2x + 1$



Define a variable and write an inequality for each problem. Then solve.

15. Nineteen more than a number is less than 42.

16. The difference of three times a number and 16 is at least 8.

17. One half of a number is more than 6 less than the same number.

18. Five less than the product of 6 and a number is no more than twice that same number.