

Practice

Solving Inequalities by Using Addition and Subtraction

Solve each inequality. Then check your solution.

1. $n + 5 \geq 32$

2. $v - 8 \leq 35$

3. $r - 6 < -15$

4. $-81 > 16 + q$

5. $-51 \leq x - (-38)$

6. $m - (-3.4) \geq 12.7$

7. $4.2 > -11 + t$

8. $2\ell < \ell - 6$

9. $16w \geq 15w - 8$

10. $6p > 5p + 19$

11. $u - 12 < 2u$

12. $2y - 17 \geq y - 6$

13. $3e - 0.2 \geq 4e + 0.5$

14. $-3 + 12a < -4 + 11a$

15. $-11.4 + s > 2s - 6.5$

16. $2.1k - 4 \geq 3.1k + 4$

17. $-\frac{3}{10} + d < \frac{9}{10}$

18. $\frac{3}{4}c \leq \frac{7}{4}c - 1$

Define a variable, write an inequality, and solve each problem.
Then check your solution.

19. A number decreased by 10 is greater than -5 .

20. A number increased by 2 is at most 6.

21. A number increased by -1 is less than 10.

22. A number decreased by -4 is at least 9.