

Worksheet 8-7 - PreAlgebra

Solving Inequalities

Solve each inequality. Check your solutions.

1. $-6 \geq g + 4$

2. $15 + d > 10$

3. $p + (-8) \leq -12$

4. $-13 < k - (-16)$

5. $-1 + s \leq 5$

6. $12 > w - (-0.3)$

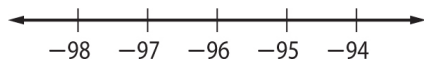
7. $-1\frac{7}{8} < d + (-2)$

8. $z - 0.9 > -4.8$

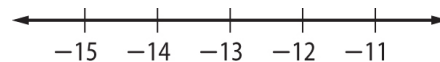
9. $b - \frac{1}{5} < 3\frac{1}{10}$

Solve each inequality. Graph each solution on a number line.

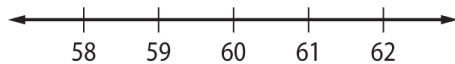
10. $24 \geq \frac{g}{-4}$



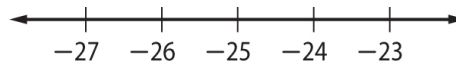
11. $-78 > 6h$



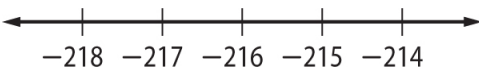
12. $\frac{f}{-5} < -12$



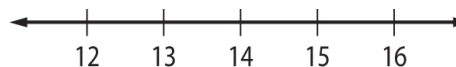
13. $100 \geq -4s$



14. $\frac{p}{-36} < 6$



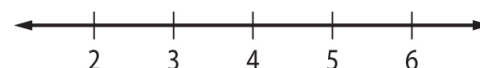
15. $-4 > \frac{c}{-3.5}$



16. $-24 < \frac{1}{2}b$



17. $-3 \leq \frac{c}{-1.5}$



18. A certain minivan has a maximum carrying capacity of 1200 pounds. If the luggage weighs 150 pounds, what is the maximum weight allowable for passengers?

19. To qualify for a store discount, Jorge's soccer team must spend at least \$560 for new jerseys. The team needs 20 jerseys.

- Write an inequality to represent how much the team should spend on each jersey to qualify for the discount.
- How much should the team spend for each jersey?