

## Inequalities

State whether the value for the variable makes the inequality true or false. For each false answer, find a value that makes it true.

|                                         |                                         |                                         |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| 1. $25x > 125$<br><br>$x = 10$          | 2. $\frac{a}{10} < 14$<br><br>$a = 140$ | 3. $\frac{w}{3} \leq 7$<br><br>$w = 12$ |
| 4. $15 + b \leq 28$<br><br>$b = 6$      | 5. $15j \leq 75$<br><br>$j = 8$         | 6. $q - 27 < 12$<br><br>$q = 49$        |
| 7. $\frac{c}{4} \geq 9$<br><br>$c = 36$ | 8. $20p < 60$<br><br>$p = 5$            | 9. $\frac{t}{6} \leq 9$<br><br>$t = 66$ |
| 10. $y - 20 \geq 5$<br><br>$v = 20$     | 11. $16 + d \geq 21$<br><br>$d = 12$    | 12. $8n > 72$<br><br>$n = 5$            |
| 13. $7u < 14$<br><br>$u = 3$            | 14. $\frac{h}{5} < 23$<br><br>$h = 115$ | 15. $\frac{f}{7} > 5$<br><br>$f = 28$   |
| 16. $14a \leq 70$<br><br>$a = 3$        | 17. $j - 32 \leq 24$<br><br>$j = 56$    | 18. $p + 28 < 31$<br><br>$p = 5$        |
| 19. $9r < 72$<br><br>$r = 9$            | 20. $18 + s \geq 29$<br><br>$s = 11$    | 21. $v - 14 \leq 3$<br><br>$q = 27$     |

