

1-3 Skills Practice

Find the solution of each equation if the replacement sets are $A = \{4, 5, 6, 7, 8\}$ and $B = \{9, 10, 11, 12, 13\}$.

1. $5a - 9 = 26$

2. $4a - 8 = 16$

3. $7a + 21 = 56$

4. $3b + 15 = 48$

5. $4b - 12 = 28$

6. $\frac{36}{b} - 3 = 0$

Use a "t" table. ALL WORK ON LOOSELEAF.

The first column is your {replacement set}.

The second column is where you substitute "parentheses are your friend" into the equation or inequality and evaluate it using PE (MD) (AS) to see which elements of the replacement set are true or false. The true values are the {solution set}.

--Mr. C.

Find the solution set for each inequality using the given replacement set.

17. $a + 7 < 13$; $\{3, 4, 5, 6, 7\}$

18. $9 + y < 17$; $\{7, 8, 9, 10, 11\}$

19. $x - 2 \leq 2$; $\{2, 3, 4, 5, 6, 7\}$

20. $2x > 12$; $\{0, 2, 4, 6, 8, 10\}$

21. $4b + 1 > 12$; $\{0, 3, 6, 9, 12, 15\}$

22. $2c - 5 \leq 11$; $\{8, 9, 10, 11, 12, 13\}$

23. $\frac{y}{2} \geq 5$; $\{4, 6, 8, 10, 12\}$

24. $\frac{x}{3} > 2$; $\{3, 4, 5, 6, 7, 8\}$