Solving Inequalities Homework
Topic 4 Homework

Name _____

Period _____

Solve the Following Inequalities <u>and Write 3 Values that are In the Solution Set</u>

| $-6 + x > 10$ | $3v \leq 33$ | $6 \geq \dfrac{p}{4}$ |

$x = \{ \qquad \}$ $x = \{ \qquad \}$ $x = \{ \qquad \}$

| $25 > 7c + c - 3c$ | $y - 7 + 3 < 14$ | $4x + 6 \geq 14$ |

$x = \{ \qquad \}$ $x = \{ \qquad \}$ $x = \{ \qquad \}$

Can $x = \{2, \ 4, \ 14, \ 27, \ 32, \ 45\}$

| 1. $10x - 5x + 8x - 11x \geq 4^3$ | 2. $10b - 6 - 9b < 4(5 - 3)$ |

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Solve the Following Inequalities and Write 3 Values that are In the Solution Set

| $-6 + x > 10$ | $3v \leq 33$ | $6 \geq \dfrac{p}{4}$ |

$+6 \qquad +6$

$\boxed{X > 16}$

$\div 3 \quad \div 3$

$\boxed{V \leq 11}$

$\bullet 4 \quad \bullet 4$

$\boxed{24 \geq p}$

$x = \{ 17, 18, 19 \}$

$x = \{ 11, 10, 9 \}$

$x = \{ 24, 23, 22 \}$

| $25 > 7c + c - 3c$ | $y - 7 + 3 < 14$ | $4x + 6 \geq 14$ |

$25 > 5 \cdot c$

$\div 5 \quad \div 5$

$\boxed{5 > c}$

$-3 \quad -3$

$y - 7 < 11$

$+7 \quad +7$

$\boxed{y < 18}$

$-6 \quad -6$

$4x \geq 8$

$\div 4 \quad \div 4$

$x \geq 2$

$x = \{ 4, 3, 2 \}$

$x = \{ 17, 16, 0 \}$

$x = \{ 2, 3, 4 \}$

Can $x = \{2, 4, 14, 27, 32, 45\} = b$?

| 1. $10x - 5x + 8x - 11x \geq 4^3$ | 2. $10b - 6 - 9b < 4(5-3)$ |

1.

$4 \cdot 4 \cdot 4$

$2x \geq 64$

$\div 2$

$\div 2$

$x \geq 32$

$x = \{ 32, 45 \}$

2.

$10b - 9b - 6 \qquad 4 \cdot 2$

$b - 6 < 8$

$+6 \qquad +6$

$b < 14$

$b = \{ 2, 4 \}$