

Union and Intersection of Sets Exit Quiz

Solve each inequality. Write the solutions as either the union or intersection of two sets.

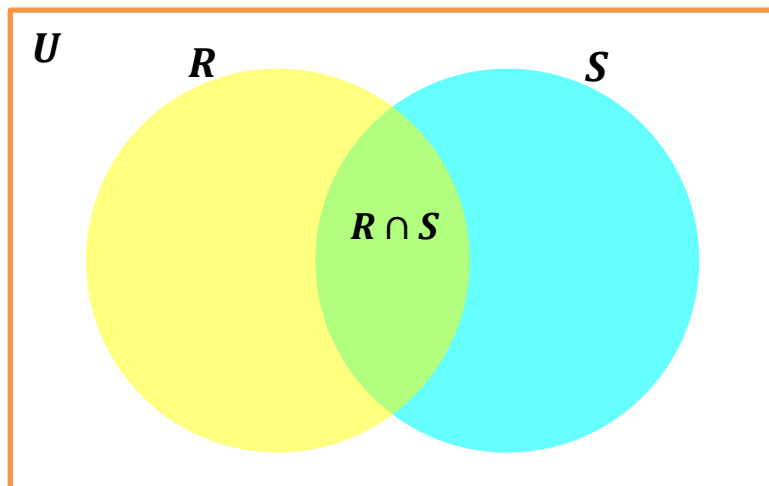
1. $|2x - 6| < 12$

2. $12 > |3x + 15|$

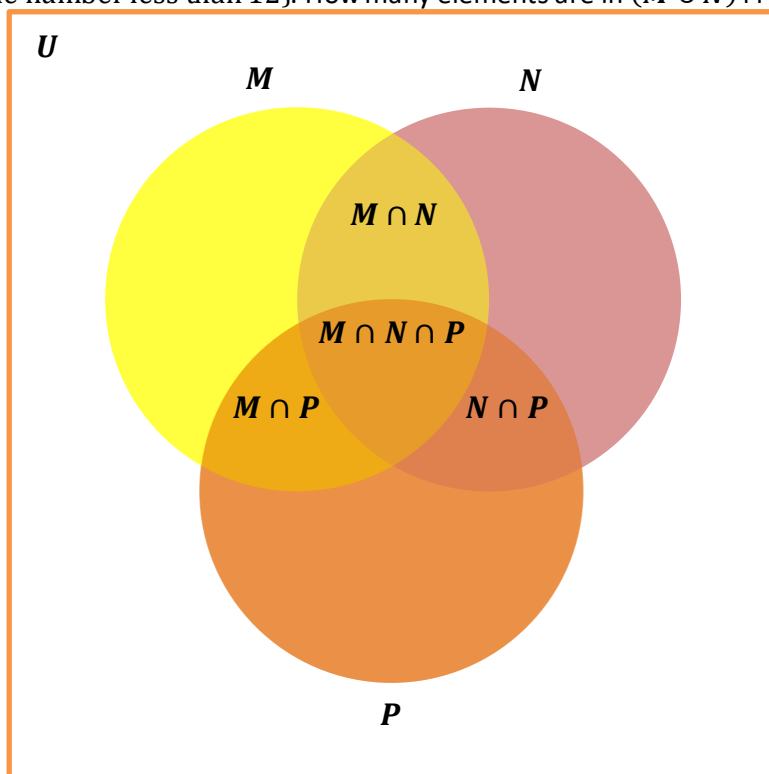
3. $5(x - 10) - 7x \leq -72x \leq -56$

Draw a Venn diagram to represent the union and intersection of these sets.

4. Let $R = \{2, 3, 4, 5\}$ and $S = \{x | x \text{ is a positive, even integer less than } 9\}$. How many elements are in $R \cup S$?



5. Let $M = \{1, 3, 5, 7\}$, $N = \{x | x \text{ is an odd whole number less than } 6\}$ and $P = \{x | x \text{ is an even whole number less than } 12\}$. How many elements are in $(M \cup N) \cap P$?



Name: _____ Period: _____ Date: _____

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