

## Union and Intersection of Sets

- 1)  $A = \{\text{orange, violet, blue, green}\}$ ,  $B = \{\text{red, green}\}$ , and  $C = \{\text{orange, green, red, yellow}\}$   
Find the following.

i)  $B \cup C =$  \_\_\_\_\_

ii)  $A \cap B =$  \_\_\_\_\_

iii)  $(A \cap B) \cup C =$  \_\_\_\_\_

iv)  $A \cap (B \cup C) =$  \_\_\_\_\_

- 2)  $R = \{1, 2, 3, 4, 5\}$ ,  $S = \{2, 3, 4, 5, 6, 7\}$

Find the following.

i)  $R \cap S =$  \_\_\_\_\_

ii)  $S \cup R =$  \_\_\_\_\_

iii)  $(S \cap R) \cap N =$  \_\_\_\_\_

iv)  $T \cup (R \cap S) =$  \_\_\_\_\_

- 3)  $L = \{a, b, c, d, e\}$ ,  $M = \{a, b, c, d\}$ ,  $N = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$

Find the following.

i)  $L \cup M =$  \_\_\_\_\_

ii)  $M \cap N =$  \_\_\_\_\_

iii)  $L \cap (M \cap N) =$  \_\_\_\_\_

iv)  $(L \cup M) \cup N =$  \_\_\_\_\_

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