Name : _____

Cardinality on Set Operations

Sheet 2

Example:

n(Y ∩ Z) = n(Y) + n(Z) – n(Y U Z)

If n(Y) = 10, n(Z) = 6, and n(Y U Z) = 13,

then n(Y ∩ Z) = 10 + 6 – 13

= 3

n(E U F) = n(E) + n(F) – n(E ∩ F)

If n(E) = 22, n(F) = 10, and n(E ∩ F) = 8,

then n(E U F) = 22 + 10 – 8

= 24

1) If n(X) = [illegible] and n(X ∩ Y) = 48, find n(X ∩ D) = 1,

n(X ∩ Y) = _____

n(C U D) = _____

3) If n(K) = [illegible] and n(K U L) = 27, find n(K ∩ L).

n(K U L) = _____

5) If n(V) = [illegible] and n(V ∩ W) = 0, find n(F ∩ G).

n(V ∩ W) = _____

n(F U G) = _____