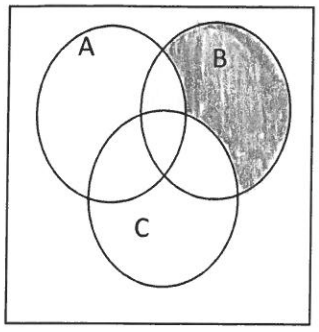
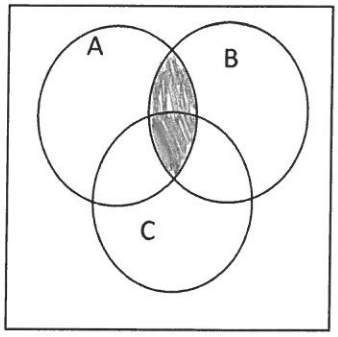
Unit 1 Test Review Sets & Probability Name: _____

35. Given sets A, B, and C as shown, shade the following:

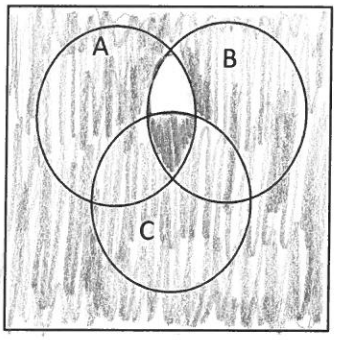
a. $A^c \cap B \cap C^c$



b. $(A \cap B) \cap (B \cup C)$



c. $(A^c \cap B^c) \cup (A \cap B)^c \cup C$



36. The following data is a comparison of laptops versus desktops purchased from a consumer electronics store in 1 month period.

	Laptops (L)	Desktops (D)	Totals
Dell (DL)	114	38	152
HP (H)	72	57	129
Lenovo (V)	43	41	84
Asus (A)	22	13	35
Apple (P)	165	101	266
Toshiba (T)	98	63	161
	514	313	827

Given the above information, find the following:

a. $L \cap V$ = 43

b. $(P \cup DL)^c \cap (L \cup D)$

$L \cup D = 514 + 313 = 827$

$827 - (266 + 152) = (P \cup L \cup D)^c$

$= 409$

-OR→ $129 + 84 + 35 + 161 = 409$

c. $H^c \cup D$

$H^c \cup D = 827 - 72 = 755$