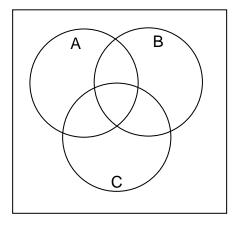
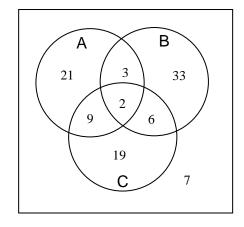
- Consider three subsets A, B and C of a universal set U. Given that n(U) = 100, n(A) = 35, n(B) = 44, n(C) = 36,  $n(A \cap B) = 5$ ,  $n(A \cap C) = 11$ ,  $n(B \cap C) = 8$  and  $n(A' \cap B' \cap C') = 7$ , find:
  - (i)  $n(A \cap B \cap C')$
  - (ii)  $n((A \cap B) \cup (A \cap C))$
  - (iii)  $n(A' \cap B' \cap C)$

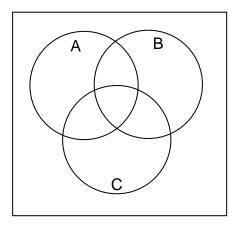


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  - (i)  $n(A \cap B \cap C')$
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  - (iii)  $n(A' \cap B' \cap C)$

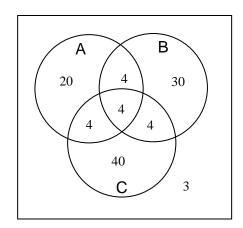


- (i) 3
- (ii) 14
- (iii) 19

- Consider three subsets A, B and C of a universal set U. Given that n(U) = 120, n(A) = 32, n(B) = 42, n(C) = 52,  $n(A \cap B) = 8$ ,  $n(A \cap C) = 8$ ,  $n(B \cap C) = 8$  and  $n(A' \cap B' \cap C') = 14$ , find:
  - (i)  $n(A \cap B \cap C')$
  - (ii)  $n((A \cap B) \cup (A \cap C))$
  - (iii)  $n(A' \cap B' \cap C)$

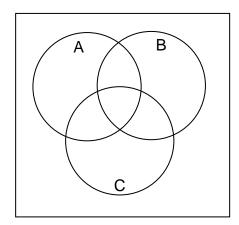


- Consider three subsets A, B and C of a universal set U. Given that n(U) = 120, n(A) = 32, n(B) = 42, n(C) = 52,  $n(A \cap B) = 8$ ,  $n(A \cap C) = 8$ ,  $n(B \cap C) = 8$  and  $n(A' \cap B' \cap C') = 14$ , find:
  - (i)  $n(A \cap B \cap C')$
  - (ii)  $n((A \cap B) \cup (A \cap C))$
  - (iii)  $n(A' \cap B' \cap C)$

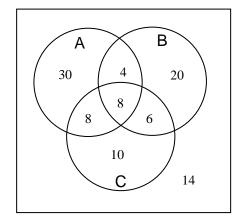


- (i) 4
- (ii) 12
- (iii) 40

- Consider three subsets A, B and C of a universal set U. Given that n(U) = 100, n(A) = 50, n(B) = 38, n(C) = 32,  $n(A \cap B) = 12$ ,  $n(A \cap C) = 16$ ,  $n(B \cap C) = 14$  and  $n(A' \cap B' \cap C') = 14$ , find:
  - (i)  $n(A \cap B \cap C')$
  - (ii)  $n((A \cap B) \cup (A \cap C))$
  - (iii)  $n(A' \cap B' \cap C)$



- Consider three subsets A, B and C of a universal set U. Given that n(U) = 100, n(A) = 50, n(B) = 38, n(C) = 32,  $n(A \cap B) = 12$ ,  $n(A \cap C) = 16$ ,  $n(B \cap C) = 14$  and  $n(A' \cap B' \cap C') = 14$ , find:
  - (i)  $n(A \cap B \cap C')$
  - (ii)  $n((A \cap B) \cup (A \cap C))$
  - (iii)  $n(A' \cap B' \cap C)$



- (i) 4
- (ii) 20
- (iii) 10