Set Notation

$A = \{1, 2, 7, 8, 10\}$

$B = \{1, 2, 3, 4\}$

$C = \{2, 4, 6, 8\}$

(a) List the elements of $A \cap B$

(b) List the elements of $B \cup C$

(c) Find $n(B)$

(d) Find $n(A \cup C)$

(e) $3 \in B$. True or false?

(f) $2 \in B \cap C$. True or false?

$A = \{n, u, m, b, e, r\}$

$B = \{e, q, u, a, l\}$

$C = \{s, i, x\}$

(a) List the elements of $A \cup C$

(b) List the elements of $B \cap A$

(c) Explain why $B \cap C = \emptyset$

(d) Find $n(B \cup C)$

(e) List the elements of $A \cap B'$

(f) $d \notin A \cup B \cup C$. True or false?

$\xi = \{5, 6, 7, 8, 9, 10, 11, 12\}$

$A = \{5, 7, 9, 11\}$

$B = \{9, 10, 11, 12\}$

(a) List the elements of $A \cup B$

(b) List the elements of B'

(c) Find $n(B \cap A)$

(d) $10 \notin B$. True or false?

(e) List the elements of $(A \cup B)'$

(f) $11 \in A \cap B$. True or false?

(g) Find $n(A' \cup B)$

(h) List the elements of $A \cup B'$

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