

True or False?

Set Notation

For each statement, circle the correct response. Where a statement is false, correct it to make it true.

1	$A = \{3, 4, 5, 6, 7, 8\}$	$5 \notin A$	True	False
2	$\xi = \{1 \text{ to } 20 \text{ inclusive}\}$ $A = \{\text{Multiples of } 3\}$	$15 \in A$	True	False
3	$B = \{2, 4, 6, 8, 10, 12\}$	$n(B) = 6$	True	False
4	$\xi = \{1 \text{ to } 20 \text{ inclusive}\}$ $B = \{\text{Multiples of } 3\}$	$n(B) = 3$	True	False
5	$A = \{3, 4, 5, 6, 7, 8\}$ $B = \{1, 2, 3, 4, 5\}$	$A \cap B = \{3, 4\}$	True	False
6	$A = \{6, 7, 8, 9\}$ $B = \{1, 2, 3, 4, 5\}$	$A \cap B = \emptyset$	True	False
7	$A = \{6, 7, 8, 9\}$ $B = \{1, 2, 3, 4, 5\}$	$n(A \cup B) = 0$	True	False
8	$A = \{2, 4, 6, 8, 10\}$ $B = \{1, 2, 3, 4, 5\}$	$5 \in A \cap B$	True	False
9	$A = \{5, 7, 9, 11\}$ $B = \{3, 4, 5, 6, 7\}$	$A \cap B' = \{9, 11\}$	True	False
10	$A = \{4, 8, 12\}$ $B = \{6, 8, 10, 12, 14\}$	$n(B \cap A') = 2$	True	False
11	$A = \{4, 5, 6\}$ $B = \{3, 4, 5, 6, 7, 8, 9\}$	$B \subset A$	True	False
12	$\xi = \{1 \text{ to } 12 \text{ inclusive}\}$ $A = \{\text{Multiples of } 3\}$ $B = \{3, 4, 5, 6, 7, 8\}$	$n(A' \cap B') = 4$	True	False