Related Questions with Solutions

Questions

Quetion: 01

If A = {2, 8} and B = {3, 4, 5}, find number of elements in A × B and B × A.
A. 12, 12
B. 6, 12
C. 12, 6

D. 6, 6

Solutions

Solution: 01

$A = \{2, 8\}, B = \{3, 4, 5\}$
$A \times B = \{(2,3),(2,4),(2,5),(8,3),(8,4),(8,5)\}$ clearly $A \times B \neq B \times A$
$B \times A = \{(3,2),(3,8),(4,2),(4,8),(5,2),(5,8)\}$
although $n(A \times B) = n(B \times A)$

Correct Options

Answer:01
Correct Options: D