

India's Number 1 Education App

MATHS

BOOKS - CENGAGE MATHS (HINGLISH)

SETS AND RELATIONS

Question Bank

1. If
$$A=\{x\mid x\in N. ext{ and } x< 6rac{1}{4}
ight\}$$
 and $B=\{x\mid x\in N ext{ and } .x^2\leq 5\}.$ Then the

number of subsets of set $Ax(A \cap B)$ which

contains 3 elements is



2. Let
$$A = \{a, b, c, d\}, B = \{b, c, d, e\}$$
. Then

n[(A xx B)nn(Bxx A) equals to

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3. Let n(U) = 700, n(A) = 200, n(B) = 300and $n(A \cap B) = 100$ then `n(A^{c} nn B^{c})





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5. If $A = \{1, 2, 3, 4, 5\}$, then the number of proper subsets of A is

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6. Given the relation $R = \{(1, 2), (2, 3)\}$ on the set $A = \{1, 2, 3\}$, the minimum number of ordered pairs which when added to R make it an equivalence relation is

7. If $B=\{1,2,3\}$, and $A=\{3,8\}$ then number of pair of $(B\cup A) imes (B\cap A)$ is

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8. Write the relation $R = \{(x, x^2)$., where x is an odd.natural number less than 7 $\}$. Find the number of relation.

A. 2

B. 3

C. 4

Answer: B



9. Let $$ *beab \in ary operation def \in edbya^{*} $$ b=2 a+b-3. $F \in d3^{*} 4$.

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10. Let $A=\{1,3,5,7\}$ and $B=\{2,4,6,8\}$ be two sets and let R be a relation from A to B defined by the phrase $(x,y)\in R\leftrightarrow x>y$ Find the number of ordered pairs under this

relation R,

A. 8

B. 10

C. 6

D. 4

Answer: C



11. Let set $A = \{3, 6, 9, 12\}$. Then find number of ordered pairs which when added to R make it reflexive and transitive relation



12. If $A = \{1, 2, 3\}, B = \{1, 4, 6, 9\}$ and R is

a relation from A to B defined by x is greater

than y'. The range of R is

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13. Let set $A = \{1, 2, 3\}$. Then find number of ordered pairs which when added to R make it reflexive but not symmetric

14. If R be a relation < ' from $A=\{1,2,3,4\}$ to $B=\{1,3,5\}$ i.e. $(a,b)\in R$ iff `a

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15. The number of reflexive relation in set

 $A = \{a, b, c\}$ is equal to

