

	<b>SECTION A: (1 MARK)</b>	
1.	If $n(A) = 8$ , $n(B) = 7$ and $n(A \cup B) = 12$ , find: (i) $n(B - A)$ (ii) $n[P(A)]$ (iii) $n[(A - B) \cup (B - A)]$	
2.	If $n(A - B) = 14 + x$ , $n(B - A) = 3x$ , $n(A \cap B) = x$ and $n(A \cup B) = 74$ . Find $n(A)$ and $n(B)$ .	
3.	Describe the following sets in roster form : (i) $A = \left\{x : x \in N, -\frac{11}{2} \leq x \leq \frac{11}{2}\right\}$ (ii) $B = \left\{x : x = \frac{n}{n^2 + 1}, 1 \leq n \leq 5, n \in N\right\}$ (iii) $C = \{x : x \text{ is a positive integer less than 10 and } (2^x - 1) \text{ is an odd number}\}$ .	
4.	If $A = \{1, 3, 5, 7, 9, 11, 13, 15, 17\}$ , $B = \{2, 4, 6, \dots, 18\}$ and $N$ is the universal set, then find $A' \cup [(A \cup B) \cap B']$ .	
5.	Describe the following sets in set-builder form: (i) $A = \left\{0, \frac{1}{6}, \frac{2}{7}, \frac{3}{8}, \frac{4}{9}\right\}$ (ii) $B = \{0, 3, 8, 15, 24, 35, 48\}$	
6.	Write each of the following sets as an interval : (i) $\{x : x \in R, -1 < x \leq 0\}$ (ii) $\{x : x \in R, 3 \leq 2x + 1 < 4\}$	
7.	Write each of the following intervals as a set: (i) $\left[\frac{3}{2}, \infty\right)$ (ii) $\left[2, \frac{7}{2}\right]$ (iii) $\left(0, \frac{1}{4}\right)$	
	<b>SECTION B: (2 MARKS)</b>	
8.	Given $n(A) = 285$ , $n(B) = 195$ , $n(U) = 500$ , $n(A \cup B) = 400$ . Find $n(A' \cap B')$ .	
9.	Let $A$ and $B$ be two finite sets such that $n(A) = m$ and $n(B) = n$ . If ratio of cardinal numbers of power sets of $A$ and $B$ is 64 and $n(A) + n(B) = 32$ , find the value of $m$ and $n$ .	$m = 19$ $n = 13$
10.	Find power set of the set $A = \{a, \{b\}, c\}$	
	<b>SECTION B: (4 MARKS)</b>	
11.	Verify De' Morgan's laws: $U = \{a, b, c, d, e, f, g, h, i, j, k\}$ , $A = \{c, e, f, h, i, j\}$ , $B = \{a, b, d, f, i\}$ .	
12.	Two finite sets have $m$ and $n$ elements. The number of subsets of the first set is 112 more than that of the second set. Find the value of $m$ and $n$ .	$m = 7$ $n = 4$

# 11th Class Cbse Maths Guide

**Khattar Dinesh,khattar Anita**



## 11th Class Cbse Maths Guide:

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