



Math Magic - CBSE
SETS - Case Study Questions
Grade 11

Q1 i ii iii iv v	<p>In a survey of 600 students of class XI, 150 are using YouTube videos and 225 are consulting books (other than text book) as a learning resource. 100 were using both YouTube videos and books as a learning resource.</p> <p>i How many students are using either books or YouTube videos as the learning resource?</p> <p>ii How many students are neither using YouTube videos nor books as the learning resource?</p> <p>iii How many students are using YouTube videos only as the learning resource?</p> <p>iv How many students are using books only as the learning resource?</p> <p>v What can be the maximum number of students who will use YouTube video or books as learning resources?</p>	5
Q2 i ii iii iv v	<p>In a class 18 students took Physics, 23 students took Chemistry and 24 students took Mathematics. Of these 13 took both Chemistry and Mathematics, 12 took both physics and chemistry and 11 took both Physics and mathematics. If 6 students were offered all the three subjects Find:</p> <p>i The total number of students are</p> <p>ii How many took Mathematics but not Chemistry?</p> <p>iii How many took exactly one of the three subjects?</p> <p>iv How many took exactly two of these subjects?</p> <p>v Number of students who took Physics or Mathematics but not Chemistry:</p>	5

Q3	<p>In a town of 10,000 families, it was found that 40% families go to shop A for their home needs groceries, 20% families go to the shop B and 10% families go to shop C. 5% families go to shops A and B, 3% go to B and C and 4% families go to A and C. 2% families go to all the three shops A, Band C. Find:</p>	5
i	The number of families which go to shop A only;	
ii	The number of families which don't visit/purchase from any of A, Band C.	
iii	The number of families which don't visit/purchase from any of A, B and C.	
iv	The number of families that purchase from exactly one shop.	
v	The number of families that buy from at least one of the shops A, B or C.	

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Answer Key

Q1	Q2	Q3
i 275	i 35	i 3300
ii 325	ii 11	ii 4000
iii 50	iii 11	iii 600
iv 125	iv 18	iv 5200
v 375	v 12	v 6000