1. 1. In a group of 120 people, 72 like coffee, 68 like tea, and 18 like neither. How many like both coffee and tea?  
   (A) 20  
   (B) 30  
   (C) 40  
   (D) 50
2. 2. In a class of 90, 54 play football, 48 play basketball, and 30 play neither. How many play both football and basketball?  
   (A) 12  
   (B) 18  
   (C) 24  
   (D) 30
3. 3. Among 200 respondents, 120 subscribe to Magazine A, 110 to Magazine B, and 30 to both. How many subscribe to at least one of A or B?  
   (A) 170  
   (B) 180  
   (C) 190  
   (D) 200
4. 4. In a survey of 150, 80 like apples, 70 like bananas, 60 like cherries. At least 25 like both apples and bananas, at least 20 like both bananas and cherries, at least 15 like both apples and cherries, and 10 like all three. What is the minimum number who like at least one fruit?  
   (A) 120  
   (B) 130  
   (C) 140  
   (D) 150
5. 5. In a coding bootcamp of 100 learners, 66 know Python, 52 know SQL, 44 know JavaScript, 30 know both Python and SQL, 25 know both SQL and JavaScript, 28 know both Python and JavaScript, and 15 know all three. How many know at least one of the three languages?  
   (A) 120  
   (B) 110  
   (C) 95  
   (D) 80
6. 6. In a club of 180 members, 90 attend workshops, 84 attend seminars, 72 attend hackathons. If 40 attend both workshops and seminars, 36 attend both seminars and hackathons, 30 attend both workshops and hackathons, and 18 attend all three, how many attend exactly one of the three?  
   (A) 120  
   (B) 88  
   (C) 82  
   (D) 74
7. 7. Out of 160 employees, 96 use Bus, 88 use Metro, and 24 use neither. If exactly 40 use both Bus and Metro, how many use exactly one of Bus or Metro?  
   (A) 80  
   (B) 104  
   (C) 120  
   (D) 128
8. 8. A library has 300 members: 180 borrow Fiction, 160 borrow Non-fiction, 140 borrow Sci-Fi. If 90 borrow both Fiction and Non-fiction, 80 both Non-fiction and Sci-Fi, 70 both Fiction and Sci-Fi, and 50 borrow all three, how many borrow at least one of the three?  
   (A) 250  
   (B) 280  
   (C) 300  
   (D) 320
9. 9. In a festival poll of 250 people, 140 like Music, 130 like Dance, and 120 like Drama; 60 like both Music and Dance, 55 both Dance and Drama, 50 both Music and Drama, and x like all three. If exactly 200 people like at least one of the three, what is x?  
   (A) 15  
   (B) 20  
   (C) 25  
   (D) 30

10. Among 220 students, 140 passed Maths, 120 passed Physics, and 110 passed Chemistry. If 70 passed both Maths and Physics, 60 both Physics and Chemistry, 65 both Maths and Chemistry, and 40 passed all three, how many passed exactly two subjects?  
(A) 95  
(B) 105  
(C) 115  
(D) 125