

- Q1. The 19th term of an AP is equal to three times its 6th term. If its 9th term is 19, find the AP. Ans. 3, 5, 7, ...
- Q2. The 9th term of an AP is equal to six times its 2nd term. If its 5th term is 22, find the AP. Ans. 2, 7, 12, ...
- Q3. The sum of 5th and 9th terms of an AP is 30. If its 25th term is three times its 8th term, find the AP. Ans. 3, 5, 7, ...
- Q4. How many 2-digit numbers are divisible by 3 ? Ans. 30
- Q5. How many 2-digit numbers are divisible by 7 ? Ans. 13
- Q6. How many multiples of 4 lie between 10 and 250 ? Ans. 60
- Q7. How many multiples of 7 lie between 10 and 350 ? Ans. 48
- Q8. How many 3-digit numbers are divisible by 7 ? Ans. 128
- Q9. How many 3-digit numbers are divisible by 9 ? Ans. 100
- Q10. Which term of the AP : 3, 10, 17, ... will be 84 more than its 13th term ? Ans. 25th
- Q11. Which term of the AP : 3, 15, 27, ... will be 132 more than its 54th term ? Ans. 65th
- Q12. Which term of the AP : 8, 14, 20, ... will be 72 more than its 41st term ? Ans. 53rd
- Q13. Which term of the AP : 5, 15, 25, ... will be 130 more than its 31st term ? Ans. 44th
- Q14. For what value of n, are the nth term of the two APs : 63, 65, 67, ... and 3, 10, 17, ... equal ? Ans. 13th
- Q15. For what value of n, are the nth term of the two APs : 13, 19, 25, ... and 69, 68, 67, ... equal ? Ans. 9th
- Q16. For what value of n, are the nth term of the two APs : 48, 50, 52, ... and 4, 10, 16, ... equal ? Ans. 12th
- Q17. Two APs have the same common difference. The difference between their 100th terms is 100. What is the difference between their 1000th terms ? Ans. 100
- Q18. Two APs have the same common difference. The difference between their 50th terms is 30. What is the difference between their 70th terms ? Ans. 30

Q19. In the following APs, find the missing terms :

- (i) 2, , 26 (ii) 4, , 38 (iii) 5, , , $9\frac{1}{2}$
- (iv) 7, , , $14\frac{1}{2}$ (v) -4, , , , , 6 (vi) -8, , , , , 12
- (vii) , 13, , 3 (viii) , 18, , 6 (ix) , 38, , , , -22

- Ans. (i) 14 (ii) 21 (iii) $6\frac{1}{2}$, 8 (iv) $9\frac{1}{2}$, 12 (v) -2, 0, 2, 4 (vi) -4, 0, 4, 8
- (vii) 18, 8 (viii) 24, 12 (ix) 53, 23, 8, -7

