

15. Some birds settled on the branches of a tree. First, they sat one to a branch and there was one bird too many. Next they sat two to a branch and there was one branch too many. How many branches were there?
- (a) 3 (b) 4 (c) 5 (d) 6

HOME WORK

16. When the natural numbers 1, 2, 3,, 500 are written, then the digit 3 is used n times in this way. The value of n is:
- (a) 100 (b) 200 (c) 300 (d) 280
17. In a mobile shop $\frac{7}{12}$ mobiles are imported and rest are manufactured in India. Further $\frac{1}{5}$ Indian mobiles are coloured while $\frac{5}{17}$ imported mobiles are black and white. If there are a total of 150 coloured mobiles in the shop, then the total number of mobile phones in the shop is:
- (a) 500 (b) 600
(c) 800 (d) data insufficient
18. If 4 is added to the numerator of a fraction, it becomes $\frac{1}{3}$ and if 3 is added to the denominator of the same fraction it becomes $\frac{1}{6}$. The sum of the numerator and denominator is:
- (a) 32 (b) 7 (c) 4 (d) 3
19. Reynolds offers a total of 150 pens to its customers. As per the scheme, one pen will be offered on the purchase of a “Quantitative Aptitude” book. Out of 150 pens, the cost of some pens is Rs. 3 and the cost of rest of the pens is Rs. 5. At the most, how many customers can avail a pen of Rs. 5 as an offer from the company if the total cost of the pens cannot exceed Rs. 745.
- (a) 45 (b) 120
(c) 147 (d) none of these
20. In how many ways can 2310 be expressed as a product of 3 factors?
- (a) 41 (b) 23 (c) 56 (d) 46