

## Test of Math's

1. Between a square of perimeter 44 cm and a circle of circumference 44 cm, which figure has larger area and by how much?  
(a) square,  $33 \text{ cm}^2$                       (b) circle,  $33 \text{ cm}^2$   
(c) both have equal area                      (d) None of these
2. A took 15 sec. to cross rectangular field diagonally walking at the ratio of 52m/min and B took the same time to cross the same field along its sides walking at the rate of 68 m/min. The area of the field is? (a)  $30 \text{ m}^2$  (b)  $40 \text{ m}^2$  (c)  $50 \text{ m}^2$  (d)  $60 \text{ m}^2$
3. A sum of money at compound interest double itself in 15 years. It will become eight times of itself in (a) 45 years (b) 48 years (c) 54 years (d) 60 years
4. A sum of money amounts to Rs. 4,840 in 2 years and to Rs. 5,324 in 3 years at CI (compounded annually). The rate of interests per annum is?  
(a) 10% (b) 9% (c) 11% (d) 8%
5. There are in all, 10 balls, some of them are red and the others white. The average cost of all balls is Rs. 28, average cost of red balls Rs. 25 and that of white balls is Rs. 30, the number of white balls is?  
(a) 3 (b) 5 (c) 6 (d) 7
6. The average weight of five persons sitting in a boat is 38 kg. The average weight of the boat and the persons sitting in the boat is 52 kg. What is the weight of the boat?  
(a) 228 kg (b) 122 kg  
(c) 232 kg (d) 242 kg
7. Two numbers are in the ratio 3 : 4. If their HCF is 4, then their LCM is?  
(a) 48 (b) 42 (c) 36 (d) 24
8. The greatest number of four digits which when divided by 12, 16 and 24 leave remainders 2, 6 and 14 respectively is?  
(a) 9974 (b) 9970 (c) 9807 (d) 9998
9. A invested an amount of Rs. 25,000 and started a business. B joined him after one year with an amount of Rs. 30,000. After two years from starting the business, they earned the profit of Rs. 46,000. What will be B's share in the profit?  
(a) Rs. 14000 (b) Rs. 12000  
(c) Rs. 17250 (d) Rs. 20000
10. A merchant has 1000 kg. sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 8% profit is ?  
(a) 600 Kg (b) 640 Kg  
(c) 400 Kg (d) 560 Kg
11. A man bought a horse and a carriage for Rs. 40,000. He sold the horse at a gain of 10% and the carriage at a loss of 5%. He gained 1% on his whole transaction. The cost price of the horse was?  
(a) Rs. 15,000 (b) Rs. 16,000  
(c) Rs. 18,000 (d) Rs. 20,000
12. How much percentage above the cost price should a shopkeeper mark his good so that after allowing a discount of 10% he should gain 26%?  
(a) 140% (b) 25%  
(c) 16% (d) 40%
13. Ratio between the monthly incomes of A and B is 9 : 8 and the ratio between their expenditures is 8 : 7. If they save Rs. 500 each, find A's monthly income?  
(a) Rs. 3,500 (b) Rs. 4,000 (c) Rs. 4,500 (d) Rs. 5,000
14. The sum of the age of a father and his son is 100 years now. 5 years ago their age were in the ratio of 2 : 1. The ratio of the age of father and son after 10 years will be?



- (c) have been neglected (d) are being neglected
13. At the time of last election you.....us an adequate supply of electricity.  
(a) promised (b) would promise (c) have promised (d) none of the above
14. As soon as he got the telegram, he.....for Bangalore.  
(a) would leave (b) had left (c) left (d) has left
15. The journey took so we ..... the wrong road.  
(a) took (b) had taken (c) would take (d) have taken

Direction: In question Nos.16 to 20, four alternatives are given for the idiom/phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase and mark it in the Answer Book.

16. She is a fair-weather friend.  
(a) a good friend (b) a friend who meets difficulties calmly  
(c) one who deserts you in difficulties (d) a favourable friend
17. To die in harness means to die while  
(a) riding a horse (b) in a stable (c) in a uniform (d) still in service
18. To keep under wraps means to keep something  
(a) covered (b) protected (c) unpacked (d) secret
19. After independence Indian agriculture rose like a phoenix due to the Green Revolution.  
(a) with a new life (b) with a start  
(c) with royal gait (d) with vengeance
20. His failure at the election has been a sore point with him for a long time.  
(a) something which hurts  
(b) something that brings fear to  
(c) something memorable for  
(d) something pleasurable to