



## IBPS CLERK MARATHON – 2016

### Ratio & Proportion and Ages

1. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?  
a) 2 : 3 : 4                      c) 6 : 7 : 8                      c) 6 : 8 : 9  
d) 4:3:2                          e) None of these
2. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?  
a) Rs. 500                      b) Rs. 1500                      c) Rs. 2000  
d) Rs.2500                      e) None of these
3. Out of the ratio 7 : 15, 15 : 23, 17 : 25 and 21 : 29 the smallest one is ?  
a) 17 : 25                      b) 7 : 15                      c) 15 : 23  
d) 21 : 29                      e) None of these
4. A, B and C started a business by investing ₹ 28000, ₹ 35000 and ₹ 14000, respectively, At the end of a year, they got a total profit of ₹ 5225. Find A's share ?  
a) ₹ 1740                      b) ₹ 1850                      c) ₹ 1900  
d) ₹ 1650                      e) None of these
5. If  $2A = 3B = 4C$  then, find A : B : C ?  
a) 2 : 3 : 4                      b) 4 : 3 : 2                      c) 6 : 4 : 3  
d) 3 : 4 : 6                      e) None of these
6. If  $a:b=1:2$  and  $b:c=3:4$  find  $a:b:c$ ?  
a) 3:8:6                      b) 3:12:6                      c) 3:6:8  
d) 1:2:4                      e) None of these

7. The inverse ratio of 3: 2: 1 is?  
a) 1:2:3                      b) 2:3:1                      c) 3:1:2  
d) 2:3:6                      e) None of these
8. Ratio of the earnings of A and B is 4:7. If the earnings of A increases by 50% and those of B decreased by 25%, the new ratio of their earnings becomes 8:7. What are A's earnings?  
a) Rs. 21,000                      b) Rs. 26,000                      c) Rs. 28,000  
d) Data inadequate                      e) None of these
9. If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?  
a) 2:5                      b) 3:7                      c) 5:3  
d) 7:3                      e) None of these
10. In an exam, a candidate secured 504 marks out of the maximum mark of M. If the maximum mark M is converted into 800 marks, he would have secured 384 marks. What is the value of M?  
a) 750                      b) 1200                      c) 125  
d) cannot be determined                      e) None of these
11. Divide Rs. 1500 among A, B and C so that A receives  $\frac{1}{3}$  as much as B and C together and B receives  $\frac{2}{3}$  as A and C together. A's share is?  
a) Rs.600                      b) Rs.525                      c) Rs.375  
d) Rs.575                      e) None of these
12. A packet of sweets is distributed among A,B,C,D in the proportion of 6:8:5:4. If B gets 10 sweets more than D then what is A's share?  
a) 16                      b) 17                      c) 15  
d) 18                      e) None of these
13. The ratio of the present ages of Ramya and Sekvi is 8 : 9. The sum of their ages is 68. What will be the respective ratio of their ages 10 year hence?  
a) 4 : 8                      b) 16 : 15                      c) 21 : 23  
d) 24 : 23                      e) None of these
14. A bag contains 25 paise, 10 paise and 5 paise coins in the ratio 1:2:3. If their total value is Rs.30, the number of 5 paise coins is:  
a) 50                      b) 100                      c) 150  
d) 200                      e) None of these


15. Two numbers are respectively 20% and 50% more than a third number. These two numbers are in the ratio  
a) 3:4    b) 4:5    c) 5:6  
d) 6:7    e) None of these
16. If two times of the daughter's age in years is included to the mother's age, the total is 70 and if two times of the mother's age is included to the daughter's age, the total is 95. So the Mother's age is,  
a) 30    b) 38    c) 40  
d) 41    e) None of these
17. The present age of a father is 3 years more than three times the age of his son. Three years hence, father's age will be 10 years more than twice the age of the son. Find the present age of the father.  
a) 23    b) 33    c) 38  
d) 45    e) None of these
18. The present ages of three persons are in proportions 4:7:9 Eight years ago, the sum of their ages was 56. Find their present ages (in years)  
a) 8,20,28    b) 16,28,36    c) 20,35,45  
d) 20,28,36    e) None of these
19. The age of father 10 years ago was thrice the age of his son. Ten years hence, father's age will be twice that of his son. The ratio of their present ages is :  
a) 5:2    b) 7:3    c) 9:2  
d) 13:4    e) None of these
20. A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present  
a) 38    b) 40    c) 42  
d) 44    e. None of these
21. The ages of Krish and Vaibhav are in the proportion of 3 : 5. After 9 years, the proportion of their ages will be 3 : 4. Then the current age of Vaibhav is:  
a) 10    b) 13    c) 15  
d) 18    e) None of these

22. the total age of A and B is 12 year more than the total age of B and C. C is how many years younger than A ?  
 a) 12    b) 24    c) data inadequate  
 d) 18    e) None of these
23. The ratio between the present age of P and Q is 6 : 7. if Q is 4 years old then P, what will be the ratio of the ages of P and Q after 4 year ?  
 a) 3 : 4    b) 3 : 5    c) 7 : 8  
 d) 4 : 3    e) None of these
24. Ten years ago A was half of B in age. If the ratio of their present ages is 3 : 4, what will be the total of their present ages  
 a) 15    b) 25    c) 35  
 d) 45    e) None of these
25. The ratio between the present ages of P and Q is 5:7 respectively. If the difference between Q's present age and P's age after 6 years is 2,what is the total of P's and Q's present ages ?  
 a) 48 years    b) 52 years    c) 56 years  
 d) Cannot be determined e) None of these
26. The ration of the father's age to his son's age is 7:3.The product of their ages is 756.The ratio of their ages after 6 years will be :  
 a) 5:2    b) 2:1    c) 11:7  
 d) 13:9    e) None of these
27. Eighteen years ago ,a father was three times as old as his son. Now the father is only twice as old as his son. Then the sum of the present ages of the son and the father is :  
 a) 54    b) 72    c) 105  
 d) 108    e) None of these
28. Q is as much younger than R as he is older than T. If the sum of the ages of the ages of R and T is 50 years, what is definitely the difference between R and Q's age?  
 a) 1 years    b) 2 years    c) 25 years  
 d) Data inadequate    e) None of these

29. Six years ago Anita was P times as old as Ben was. If Anita is now 17 years old, how old is Ben now in terms of P?  
 a)  $11/P + 6$                       b)  $P/11 + 6$                       c)  $17 - P/6$   
 d) Cant be determined            e) none of these
30. The ratio of Laxmi's age to the age of her mother is 3:11. The difference of their ages is 24 years. The ratio of their ages after 3 years will be?  
 a) 1:3                                      b) 3:1                                      c) 2:5  
 d) 5:2                                      e) None of these

### Apps Answer Key

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 1.a  | 2.c  | 3.b  | 4.c  | 5.c  | 6.c  | 7.d  | 8.d  | 9.c  | 10.e |
| 11.c | 12.c | 13.c | 14.c | 15.b | 16.c | 17.b | 18.b | 19.b | 20.b |
| 21.c | 22.a | 23.c | 24.c | 25.a | 26.b | 27.d | 28.d | 29.a | 30.a |

  
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