

Ratio Class Sheet

1. The sum of three numbers is 98. If the ratio of the first to second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is:
2. If ratio of 4 angles(A,B,C & D) of a quadrilateral is 2 : 7 : 8 : 7 Find $\angle B$?
3. If the numbers of Apple to Banana to Kiwi is in the ratio of 2 : 5 : 11 and the number of banana is 45 more than that of Apples, then how many Kiwis are there?
4. There are five more computers in the office than employees. If there are 10 employees in the office, what is the ratio of computers to employees in the office?
(A) 2 : 3
(B) 2 : 5
(C) 3 : 2
(D) 3 : 5
(E) 5 : 2
5. A team played 60 games, of which it won 40% games. 4 games were a tie. What part of the games played did the team lose?
(A) 8/15
(B) 3/10
(C) 3/5
(D) 7/3
6. Ratio of 2 numbers is 5:4. When both the numbers are increased by 10 then their ratio becomes 7:6. Find the numbers?
7. If numerator of a fraction is increased by 25% and Denominator is decreased by 10 %, then it becomes 5/9 Find original Fraction?
8. The ratio of the number of boys and girls in a school is 5 : 4. If 18 new boys, which is 5 % of total students, joins the class. What fraction of girls is now in the school?
9. 5 years ago, ratio of ages of Andy, Cathy and Wayne is 2 : 3 : 5. If Sum of their present ages 75 years. Find present age of Andy.
10. 5 years ago, ratio of ages of Father and Son was 7 : 2. 4 years hence ratio of their ages will be 3 : 1. Find present age of Son?
11. A amount of Rs. 735 was divided between A, B and C. If each of them had received Rs. 25 less, their shares would be in the ratio of 1 : 3 : 2. Find the share of C.
(A) Rs. 170
(B) Rs. 195
(C) Rs. 220
(D) Rs. 245
(E) 270
12. The ratio of Dough to cream in a cake is 3:5. If the quantity of cream is increased by 60%, Find percentage of Dough in the cake?
13. 40 litres of Solution contains Water and Lime in the ratio of 4: 1. Find Values for following.
(A) If 6 litre Solution is removed, then ratio of Water and Lime Now
(B) If 10 litre Solution is removed and replaced by water, Find ratio of Water and Lime Now
14. In a mixture of 60 litres, the ratio of milk and water is 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is:
15. (i) $\frac{a}{b} = \frac{1}{2}$; $\frac{a}{c} = \frac{2}{3}$, then $\frac{a}{b+c} = ?$
(ii) a:b = 3:4, b:c = 8:9, c:d = 10:7 & d:e = 14:3. Find a:e?
16. Jack was planting a tree. He was to dig a hole that was 3 feet deep for every 5 feet of tree height. How deep should he dig the hole for a tree that is 17 feet high?
17. A person distributed "N" number of chocolates among 4 children in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{5} : \frac{1}{8}$, then Which of the following could be the N?
(A)254
(B)278
(C)328
(D)382
18. The positive mean proportional between 64 and 81 is $\frac{64}{\lambda} = \frac{\lambda}{81}$
19. Cost of cylinder is directly proportional to cube of the radius. If radius is tripled then cost of cylinder increases by how many times?
20. Cost of Plutonium is directly proportional to square of its weight. A 40 gms plutonium costs \$16000. It breaks into 3 parts in ratio 1:2:5. Find reduction in cost due to breakage.
21. Oscillation of a pendulum is inversely proportional to square root of its Weight. A 25 gms pendulum oscillates for 40 times then, how many times a 16 gms pendulum will oscillates for?
22. Telephone bill of Mr. Mittal is partly fixed and partly varies linearly with the number of outgoing calls. If the number of outgoing calls is 200, bill generates for \$600, But for 400 calls, it costs \$800. Find costs for Mr. Mittal if he makes 800 outgoing calls?
23. X,Y, Z started a new venture by investing 20,000 each. After 3 months, Mr. X left the business and after 6 months Mr. Y also left the business, But Mr. Z stayed for whole year. After a year, total profit generated in the business was \$3500. Find each partner's share.
24. \$ 600, is distributed among A, B, C such that A gets half as much as what B and C gets together. B gets two- third as much as what C and A gets together. Find share of A?
25. Income of X and Y is in ratio 5 : 4 and their expenses are in the ratio of 3 : 2 respectively. If Mr. X could be able to save \$10,000. Find Savings of Mr. Y?



Ratio

1. 30	2. 105	3. 165	4. C	5. A
6. 25,20	7. $\frac{2}{5}$	8. $\frac{89}{189}$	9. 17	10. 41
11. D	12. 27.27	13. No change, 17:3	14. 60	15. $\frac{2}{7}, \frac{40}{9}$
16. $\frac{51}{5}$	17. B	18. 72	19. 26	20. 8500
21. 50	22. 1200	23. 500,1000,2000	24. 200	25. CNBD