Ratio and Proportion Questions Worksheet

1. Rohan, Rajesh, Rahul, and Raj are 4 brothers, and a particular sum of money has to be disbursed amongst them. This has to be done in 5: 2: 4: 3 proportion. Find out the share of Rajesh if Rahul gets Rs. 1,000 more than Raj.

2. Siya made 60 litres of lemon soda. In this, the ratio of water and soda was 2:1. Calculate the total quantity of water that will make the ratio 1:2.

3. There are 2 numbers, the ratio of which is 5:9. Upon adding 9 to the greater number and subtracting 5 from the smaller, the greater number becomes 3 times the smaller. Find out the 2 numbers.

4. What will be the ratio of a square's diagonal which has a side of 40 cm?

5. The ratio of the business class and economic class in an airline between two stoppages is 6:4 and the total number of passengers travelling from business and economic class is 1:30. If Rs. 2,100 is taken as a fare for economic class, what will be the fare for business class?

6. A mother was supposed to divide Rs. 390 amongst her 3 daughters, Riya, Jiya, and Siya such that thrice Riya's share, twice Jiya's share and 4 times Siya's share will be equal. Calculate each sister's share.

7. A coin with a weight of 20 decigrams is worth Rs. 4,800. What will be the price of a diamond of a similar kind weighing 8 decigrams? Remember, the gold coin cost will vary as the square of its weight.

8. Ramesh and Suresh are two friends. Ramesh received an appraisal of 10% and Suresh received a 20% appraisal. If their previous salaries were in the ratio of 4:5, calculate their revised salaries.

9. In the purse of an old lady, there were 300 coins of the denominations 2 rupees, 5 rupees, and 10 rupees. Their total value is in the ratio 10:4:2. You need to find out the total number of coins of each type.

10.   Mr Kapoor divided Rs. 1,870 amongst his 3 grandchildren such that half of the first part was given to A, one-third of the second went to B, and

one-sixth of the part given to C are equal. What is the amount given to each kid?

11.   X and Y are two alloys of Gold and silver made by putting together metals in the quantity 7:2 and 7:11 respectively. If exact quantities of two alloys are melted to make the third alloy named Brass, then what will the proportion of Gold and Silver in Brass be?

12.   At a party, Sachin was given a task to distribute Rs. 500 amongst Rishabh, Sahil, Sakshi, and Srishti such that Rishabh and Sahil get 3 times as much as Sakshi and Srishti together. Sahil gets 4 times what Rishabh gets and Rishabh gets 1.5 times as much as Sakshi. How much money does Sahil have?

13.   A cocktail contains water and alcohol in the ratio 4:3. If 5 litres of alcohol is added to the drink, the ratio becomes 4:5. Determine the quantity of water in the alcohol.

14.   In a piggy bank, there were Rs. 206 in the denominations of 10 rupees, 5 rupees, and 2 rupees coins in a ratio of 5:9:4. Determine the number of each type of coin.

15.   From the total strength of the class, if the no of boys in the class is 5 and no of girls in the class is 3, then find the ratio between girls and boys?