WORKSHEET ON RATIO PROPORTIONS & VARIATIONS

1.	The ratio of a and b is 1:2. The ratio is 2:3. What is the ratio of a and c?	of b and c	3.	If 1, X, 2 and 6 are in contin find X.	ued	proportion,			
2.	The ratio of a and b is 1:2. The ratio is 4:3. The ratio of c and d is 1:3. Wh		4.	The mean proportional valu	ue o	f 9 and 16 is			
5.	The ratio of the number of chocolat and B have together?	es with A and B is 3:4.	If A	has 12 chocolates, how mar	ny ch	nocolates do A			
6.	The ratio of two positive integers is 1:2. If 5 is added to the first number, the ratio becomes 2:3. Find the two numbers.								
7.	Divide Rs. 60 in the ratio 1:2 between A and B.								
8.	The ratio of A:B is 2:3. If B is increased by 10, then the ratio becomes 2:5. Find increased value of B.								
9.	The ratio of A:B is 2:3. If B is decreased by 20, then the ratio becomes 1:1. Find the original value of B.								
10.	The ratio of a certain number of cooks to the number of waiters is 3:13. When 12 more waiters are hired, the ratio of the number of cooks to the number of waiters becomes 3:17. How many cooks are there?								
11.	In a mixture of 100 litres, the ratio of milk and water is 2:3. If this ratio is to become 1:2, then what quantity of water (in litres) is to be added to the mixture?								
12.	The ratio of the amounts with two people A and B is 1:2. If B gives Rs.100 to A, the ratio becomes 2:3. Find the amount with B after the transaction.								
13.	The ratio of copper and zinc in an alloy is 13:7. How much zinc (in kg) will be present in 100 kg of alloy?								
14.	30 kg of an alloy A is mixed with 50 kg of alloy B. If alloy A has lead and tin in the ratio 3:2 and alloy B has tin and copper in the ratio 1:4, then the amount of tin in the new alloy (in kg) is								
	a. 20 b.	22	(c. 24	d.	15			
15.	The monthly salary of A,B and C are salary, then what is the salary of B (s m	onthly salary is Rs.2000 mor	e th	an that of A's			
	a. 2,000 b.	4,000	(5,000	d.	9,000			
16.	A sum of money is distributed amo what is B's share (in Rs)?	ng A,B,C and D in the p	rop	ortion 1:2:3:4. If D gets Rs.9	000	more than A,			
	a. 2,000 b.	5,000	(6,000	d.	4,000			
17.	The ratio of the income of A and B each saves Rs.2000, then the incom		heir	expenditure is 5:4. If at the	end	of the year,			
	a. 3000 b.	2500	(c. 4500	d.	6000			
18.	The ratio of the incomes of A and B each saves Rs.3000, then the expen		thei	r expenditure is 5:3. If at the	e en	d of the year,			
	•	9000		c. 15000	d.	6000			
19.	It was intended that a sum of Rs.11	.7 be divided among Ch	eta	n, Peter and Reeta in the rat	tio 4	:3:2. But due			

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to a mistake the distribution was made in the ratio 1/4:1/3:1/2. How much does Reeta gain by the error?

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c. 28

d. None

b. 54

a. 26

20.	The sum of three numbers is 63. Ratio of the first two numbers is same as the ratio of the second and third number. If the second number is two times the first number, find the third number.							ond and the			
		32		36	c.		d.	48			
21.	A and B are two alloys of gold and copper prepared by mixing the metals in the ratio 4:3 and 5:9 respectively. If equal quantities of these alloys are melted to form a third alloy C, then the ratio of gold and copper in C will be										
	а.	5:7	b.	13:15	c.	15:13	d.	None			
22.	A and B are two alloys of gold and copper prepared by mixing the metals in the ratio 4:3 and 17:4 respectively. If equal quantities of these alloys are melted to form a third alloy C, then the ratio of gold and copper in C will be										
	a.	29:13	b.	21:7	c.	7:21	d.	13:29			
23.		tively. If A and B are mixe		copper prepared by mixin the ratio 2:3 to form a th	_						
	a.	11:8	b.	11:7	c.	7:5	d.	4:5			
24.	3 containers contain zinc and copper in the ratio 2:5, 1:4, 2:3 respectively. All 3 solutions are mixed in the ratio 1:3:4. Then find the ratio of zinc and copper in the resultant solution.										
	a.	85: 173	b.	89:201	c.	87:193	d.	67:125			
25.	Three Jars contain alcohol to water in the ratios 3:7, 1:9 and 9:1. If equal quantities of all the three solutions are mixed, what will be the ratio of alcohol to water in final solution?										
	a.	13:17	b.	17:13	c.	1:2	d.	3:4			
26.	26. If there are Rs. 495 in a bag in denominations of one-rupee, 50-paisa and 25-paisa coins w ratio 1:8:16. How many 50 paisa coins are there in bag?										
	a.	440	b.	55	c.	880	d.	600			
27.	Three Jars contain alcohol to water in the ratios 3:7, 1:3 and 1:1. If all the three solutions are mixed, what will be the ratio of alcohol to water in final solution?										
28.	and in			of a mixture of oil and w these tanks are poured ir							
29.		io of a two-digit natural re possible?	num	ber to a number formed	by r	eversing its digits is 4:7. F	low	many such			

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much milk (in litres) is to be added now?

30. In a mixture of 35 L, the ratio of milk to water is 4:1. If 7 L water is added to the mixture, the ratio of milk to water changes to a new ratio. If we want ratio of milk and water to change back to the original value, how