

Ratio

1. An outgoing batch of students wants to gift books worth Rs 4,200 to their teachers. If the boys offer to pay 50% more than the girls and an

 $external sponsors gives three \ times the \ boy's contribution, then how \ much \ should \ the \ boys \ do \ nate?$



	(a) Rs. 600	(b) Rs. 900	(c) Rs. 840	(d) Rs. 1	200		
2.	A man leaves Rs. 8,	600 to be divided	lamong 5 sons, 4 d	aughters and 2 nephews	; if each daughter receives	s four times as much as each nephew	
	and each son recei	ves five times as n	nuch as each neph	ew, how much does each	daughter receive?		
	(a) Rs. 100	(b) Rs.	600 (c) R	s. 800	(d) Rs. 1000		
3.	Rs. 430 is divided a	mong 45 persons	, such that the ratio	o of total amount receive	d by all men, all women &	all children are in the ratio	
	12: 15: 16. While th	eratio of amount	received by each r	nen, each woman & eacl	n child is 6: 5: 4. Find the a	mountreceived by each woman.	
	(a) Rs. 10	(b) Rs. 20	(c) R	s. 40 (d) Rs. 50)		
4.	A person bought s	some rice and whe	eat for Rs. 380. The	ratio of weight of rice ar	d wheat is 4: 3 and the pri	ice of equal amount of rice and	
	wheat are in the ra	tio 5: 6. The rice w	as bought of worth	ո.			
	(a) Rs. 380	(b) Rs.	300 (c) R	s. 200	(d) Rs. 180		
5.	The ratio of number	er of cans of orang	je, pineapple and n	nixed fruit juices kept in a	store is 8: 9: 15. If the sto	ore sells 25%, 33. 33% and 20% of	
	orange, pineapple	and mixed fruit ju	ices cans respective	ely then what is the ratio	of number of cans of thes	e juices in the remaining stock?	
	(a) 8: 9: 15	(b) 1: 1	1: 2 (c) 12	2: 15: 19	(d) 4: 9: 13		
6.	From each of the t	wo given u nequal	l numbers. Half of t	he smallernumberis sul	otracted. Then, among of r	esulting numbers the larger one is	
	five times of the sn	nallerone. Then th	ne ratio of the large	er to the smaller one is.			
	(a) 2: 1	(b) 3:	2 (c) 3	:1	(d) 1:4		
7.	A naughty student	breaks a pencil in	such a way that th	e ratio of two broken pa	rts is same as that of the o	riginal length of the pencil to one of	
				ller) part to the original l	ength of the pencil is?		
(a	a) $\frac{2}{3+\sqrt{5}}$	(b) $\frac{1}{2}$	$\frac{1}{+\sqrt{5}}$ (c) $\frac{1}{3}$	3 11.a/ E	(d) none of these		
8.		3	1 4 5	11 45	Rs 52 are diminished from	n their shares respectively, the	
0.	remainder shall be		•		N3 32 are annimistica from	interest shares respectively, the	
	(a) 585, 1078, 1452		5, 1178, 1252	(c) 485, 1088, 1352	(d) 785, 1378,	1652	
9.	• • • • •			, , ,	. , , ,		
٥.	One year ago the ratio of income of A & B is 3: 5. The ratio of their last year income to current year income is 2: 3 and 4: 5. If their total current year income is Rs. 4300. Find their present income individually.						
	(a) Rs. 1900, 2400	•	1500,2700	(c) Rs.1800,2500	(d) Rs.1200,21	00	
10					ar income to current year i		
	•			8,500. Find the present i	•		
	(a) Rs.76000	(b) Rs.		(c) Rs.56000	(d) Rs.75000		
11.		` ,				t year and the present year are 3: 4	
			•			ne (in Rs. lakh) of A in the last year	
	and that of B in the	-	•	•		•	
	(a) 22.17	(b) 10	.98	(c) 20.52	(d) 21.28		
12.	The ratio of the inc	omes of A and B I	ast year was 4: 3, re	espectively. The ratio of t		the last year and the present year is	
	3: 4 and 5: 6 respec	ctively. If their tota	al income forthe pr	esent year is Rs. 8.04 lak	n, then in come of B last ye	ar was:	
	(a) Rs. 2.7 lakh	(b) Rs.	3.6 lakh	(c) Rs. 2.4 lakh	(d) Rs. 2.8 lakh	า	
	The ratio of the inc	omes of A and Bi	n 2020 was 5: 4. Th	e ratios of their individu	al in come in 2020 and 202	1 were 4: 5 and 2: 3, respectively. If	
	the total income of A and B in 2021 was Rs. 7, 05,600, then what was the income (in Rs.) of B in 2021?						
	(a) 3,45,600 (b) 2,79,700 (c) 3,60,000 (d) 4,25,900						
14.	The ratio of expend	diture of A, B and (C is 16: 12: 9 and th	neir total in come is 1530.	Find the share of B's inco	me, if they save 20%, 25% and 40%	
	of their income.						
	(a) 480	(b) 540	(c) 350	(d) 450			
15.	The total income o	f A, B and C is 606	0. A spend 80%, B	spend 85% and C spend	75% of their income. The	ratio of their saving is 5: 6: 9. Find	
	the income of A.						
	(a) Rs. 4500	(b) Rs.	1500	(c) Rs. 3500	(d) Rs. 2500		
16.	The ratio of income	e of A, B and C is 3	3: 7: 4 and the ratio		3: 5 respectively. If A save	s Rs. 300 out of Rs. 2400, find the	
	saving of C.						
	(a) Rs 675	(b) Rs. 775	(c) Rs. 575	(d) Rs. 8	75		





17.	Two vessels contain milk & water in the ratio 7: 5 and 7: 9. If both vessels are mixed in ratio 1: 1, find the ratio of milk and water in new mixture						
	(a) 49:47 (b) 50:52 (c) 53:56 (d) 35:39						
18.	Three vessels each of 10 litre capacity contain a mixture of milk water in the ratio 2: 1, 3: 1 and 3: 2. If all the three vessels are emptied into a						
	large vessel, find the ratio of milk and water in new mixture.						
	(a) 130:112 (b) 121:59 (c) 112:70 (d) 125:30						
19.	Three glasses of equal volume contain acid mixed with water. The ratio of acid and water are 2: 3, 3: 4 and 4: 5 respectively. Contents of these						
	glasses are poured into a large vessel. The ratio of acid and water in the large vessel is:						
	(a) 417: 564 (b) 401: 544 (c) 407: 560 (d) 411: 540						
20.	Two vessel A & B contain a mixture of milk & water in the ratio 4: 5 and 5: 1. If both vessel are mixed in the ratio 5: 2. Find the ratio of milk &						
	water in new mixture.						
	(a) 4: 5 (b) 6: 5 (c) 6: 2 (d) 5: 4						
21	60 kg of an alloy A is mixed with 100 kg of alloy B. If alloy A has lead and tin in the ratio 3: 2 and alloy B has tin and copper in ratio 1: 4, the						
	amount of tin in the new alloy is:						
	(a) 44 kg (b) 53 kg (c) 80 kg (d) 24 kg						
22	A 2 kg metal of which 1/3 is zinc and rest is copper mixed with 3 kg of metal of which 1/4 is zinc and rest is copper. What is the ratio of zinc to						
	copper in new mixture?						
	(a) 17:43 (b) 19:25 (c) 21:23 (d) 18:24						
22	In a colored picture of blue and yellow color, blue and yellow coloris used in the ratio of 4: 3 respectively. If in upper half, half blue: yellow is						
23.	2:3, then in the lower half blue: Yellow is						
	(a) 26:9 (b) 4:7 (c) 5:9 (d) 6:11						
24.	Ratio of land water on earth is 1: 2 and ratio of land and water in northern hemisphere is 2: 3. Find the ratio of Land and water in Southern						
	hemisphere.						
25	(a) 8: 10 (b) 4: 11 (c) 5: 12 (d) 6: 15						
25.	A policeman starts to chase a thief. When the thief goes 10 steps the policeman moves 8 steps and 5 steps of the policeman are equal to 7						
	steps of the thief. The ratio of the speeds of the policeman and the thief is:						
0.6	(a) 25:28 (b) 25:26 (c) 28:25 (d) 56:25						
26.	A dog starts chasing a rabbit as long as the rabbit moves 9 steps in a time, dog take place 6 steps in same time. The distance taken by the dog						
	in 5 steps is equal to the distance covered by the rabbit in 8 steps. The ratio of the speed of dog and rabbit is:						
	(a) 16:15 (b) 15:16 (c) 48:49 (d) 56:25						
27.	If a is the mean proportional between 4 and 9 and b is the mean proportional between 2a and 48, then the value of 5b - 9a is.						
	(a) 22 (b) 88 (c) 66 (d) 44						
28.	If two extreme terms of three continued proportional numbers to ab/c, ac/b then the mean proportional is.						
	(a) ac (b) ab (c) b (d) a						
29.	The fourth proportional to $4x + 3$, $7x + 2$ and $9x + 2$, if $x = 4$ is.						
	(a) 60 (b) 45 (c) 58 (d) 57						
30.	Find two numbers such that their mean proportion is 12 and third proportion is 768.						
	(a) 3 and 24 (b) 3 and 48 (c) 6 and 48 (d) 6 and 24						
31.	$When \ x is \ added \ to \ each \ of 9, 15, 21 \ and 31 the \ numbers \ so \ obtained \ are \ in \ proportion. What is the mean \ proportional \ between \ the \ numbers$						
	(3x - 2) and $(5x + 4)$?						
	(a) 42 (b) 35 (c) 20 (d) 30						
32.	$When \ 'x' is subtracted from each of the numbers 58, 75, 79 and 103, then the resulting numbers in the given order, are in proportion. What is$						
	the mean proportional between $(x + 2)$ and $(3x - 5)$ 'x'?						
	(a) 12 (b) 15 (b) 18 (d) 10						
33.	When x subtracted from each of the numbers 54, 49, 22 and 21, the numbers so obtained are in proportion. The ratio of $(8x - 25)$ to $(7x - 26)$						
	is:						
	(a) 5:4 (b) 15:13 (b) 29:24 (d) 27:26						