Ratio and Proportion

			1tutio u	na i roport	1011		
1.	If $p: Q = 8:15$	S and Q : R = 3 :	2, then find	P:Q:R			
	a) 8:15:7	b) 7:15:8	c) 8:15:10	d) 10	: 15 : 8	e) Non	e of the above
2.	If $p: Q = 8:15$	5, and $Q : R = 5$: 8, R : S = 4	: 5, then P : S is	equal to		
	a) 4:15	b) 2:15	c) 3:19	d) 7:15		e) Non	e of the above
3.	If $A: B = 2:3$	B: C = 5:7 ar	and $C: D = 3:$	10, then What is	s $A:D$ equal to	?	
	a) 1:7	b) 2:7	c) 1:5	d) 5:1			
4.	Find the 4 th p	roportional to 4	, 16 and 7.				
	a) 28	b) 29	c) 22	d) 25	e) None of the	e above	
5.	Calculate the 3	rd proportiona	1 to 15 and 30).			
	a) 55	a) 55 b) 15 c) 65 d) 60 e) None of the above					
6.	Find the mean	proportional be	etween 9 and 6	54			
	a) 25	b) 24	c) 27 d) 35	e) Nonve of the above			
7.	What is the me	ean proportional	l between (15	$5 \pm \sqrt{200}$ and (2	$(27 - \sqrt{648})$?		
	a) 4	b) 14 √ 7	c) $3\sqrt{5}$	d) $3\sqrt{5}$			
8.	What will be	the duplicate rat	tio of 2:7?				
	a) 4:49	b) 49:4	c) 4:14	d) 8:343	e) None of the	e above	
9.	Find the sub-	luplicate ratio o	f 81 : 64.				
	a) 8:9	b) 4 : 9	c) 9:8	d) 7:8	e) None of the	e above	
10.	Find the triplic	ate ratio of 7:5	5				
	a) 125: 343	b) 343: 125	c) 344 : 125	d) 343 : 126	e) None of the	e above	
11.	Calculate the s	ub-triplicate rat	io of 512:72	9			
	a) 9 : 8	b) 4 : 9	c) 7:8	d) 8:9	e) None of the	e above	
12.	What will be the						
				d) 19:5	e) None of th	e above	
13.		Find the compound ratio of $2:7$, $5:3$ and $4:7$.					
		a) 147: 40 b) 40: 147 c) 147: 30 d) 30: 147 e) None of the above					above
14.				he value of $A: A$			
	a) 3:4:5 b) 1:2:3 c) 7:12:17 d) 6:8:9						
15.	If $a : b = b : c$,		_	1) 1 2			
1.0		b) $a^2 : c^2$					
16.	If $a:b=3:5$) N C (1	1	
17				d) 12:35	e) None of the	e above	
1/.		$4 \ a = 5 \ b$ and $7b = 9c$, then $a : b : c$ is equal to $45 : 36 : 28$ b) $44 : 33 : 28$ c) $28 : 36 : 45$ d) $36 : 28 : 45$ e) None of the				a) Nama a 6 41a a	
	a) 43 : 30 : 28 above	0) 44 : 33 : 26	5 () 28	. 30 : 43	u) 30 : 28 : 43)	e) None of the
40			7				
18.	If $\frac{a}{7} = \frac{b}{9} = \frac{a}{1}$						
		b) 9 : 7 : 11	c) 7 :	9:11	d) 11:7:9		e) None of the
	above						
19.	If 30 % of $A =$				1) 4 -		
	a) 1:3	b) 3:2	c) 3 :	1	d) 2 : 3		e) None of the
	above		$\mathbf{p} \cdot \mathbf{o} \cdot \mathbf{p}$				
20.	If $P:Q:R=2$	2:3:4, then fin	$\operatorname{id} \frac{r}{Q} : \frac{Q}{R} : \frac{R}{P}$				

	,	b) 9:8:24	c)	24:8:9	d) 8:24:9	e) None of the
21	above	1 . 41 41	C1	:.1. :. 7 . 5 164	2400 1	! d 1 1. d 1
21.				giris is /: 5. II tr	iere are 2400 students	in the school, then how
		here in the sch		900	J) 1000	
22	a) 500	b) 700		800	d) 1000	cast, and
22.					number. Find the ratio	
22	a) 10:13	b) 8:13	/	d) 13:10	,	
23.					is increased by 3, the	ratio becomes 4:5.
		rence between t			C.1 1	
2.4	a) 3	b) 9) 7 e) None o		1 1
From each of two given numbers, half the smaller number is subtracted. After such subtractil larger number is 4 times as large as the smaller number. What is the ratio of the numbers?						
	•		-		What is the ratio of the	ne numbers?
	a) 5:2	,		d) 4:5		1 0 5 11
25.			of 4:7. If	5 is subtracted f	from each, the ratio be	comes 1:2. Find the
	greater numbe		\ 	1) 0.5		
	a) 15	*	c) 20	*		
26.	, · · ·					n the ratio 3:4. What is
	•	the two number		1) 510		
	a) 360	<i>'</i>	<i>'</i>	d) 512		4 44 4500 4
27.					number of girls in the	·
				•	numer of girls in the s	
	a) 26 : 25		· ·	*	e) None of the ab	
28 .	_				ay weigh 30 kg more t	han Suresh, then what is
		weight of Sur				
	a) 0.4	b) 0.6	c) 0.3	*	e) None of the ab	
29.					girls leave the school	, the ratio becomes 6 :
	· ·	boys are there i				
	a) 1800	b) 1200	c) 1000	*	e) None of the al	
30. In a class, the number of boys and girls is in the ratio of 4 : 5. If 10 more boys join the c				=		
of numbers of boys and girls becomes 6:5 How many girls are there in the class?						
	a) 20	b) 30	d) 25	d) Couldn	't be determined	e) None of the
	above					
31.					number of boys in the	
				•	total number of girls	
	a) 303 : 275	,	5:303	c) 11: 12	<i>'</i>	None of the above
32.					rs the same distance in	8 h. What is the
				to that of car?		
	a) 3:4	b) 1:2	c) 5:6		e) None of the ab	
33.			at a certain	speed. If half of	f this distance is covered	ed in double the time,
	the ratio of the	-				
	a) 4 : 1	b) 1:4	c) 2 : 1	d) 1: 2		
. .		a ·		00 0 1	a e a	
34. The speeds of three cars are in the ratio of 2 : 3 : 4 Find the ratio between the time					time takes by these cars	
	to cover the sa				_	
	a) 2 : 3 : 4	b) 4 : 3 : 2	c) 4 : 3 :	6 d) 6:4:3	e) None of the ab	ove

35.	A person distril	butes his pens among	four friends A,	B, C and D in t	the ratio $\frac{1}{3}$: $\frac{1}{4}$: $\frac{1}{5}$: $\frac{1}{6}$ What is		
	minimum number of pens that the person should have?						
	a) 75	b) 45 c) 57	d) 65				
36.	Divide Rs 990	into 3 parts in such a v	way that half o	f the first part, o	one-third of the second part and		
	one-fifth of the third part are equal						
	a) 198. 494, 29	8 b) 198. 297, 4	195 c) 200	0. 300. 490	d) 196. 298. 496		
37.					9; 11. If the total money in the bag		
	is Rs 366, then find the number of 25 paise coins.						
	a) 264	b) 364	c) 241	d) 245	e) None of the above		
38.	Amit and Sude	sh have invested in the	e ratio of 4:7.	If both invested	d a total amount of Rs 49500, then		
	find the investr	nent of Sudesh.					
	a) Rs. 31500	b) Rs.1800	c) Rs.31000	d) Rs.18500	e) None of the above		
39.	If a sum Rs 10	664 is divided between	n P and Q in th	e ratio of 1/3:	1/5, then find P s share		
	a) 1085	b) 1015	c) 10 ²	40	d) None of the above		
40.	The marks of 3	students A , B and C a	are in the ratio	10:12:15. If t	he maximum marks of the paper		
	are 100, then th	ne marks of <i>B</i> cannot be	be in the range	of			
	a) 20 - 30	b) $40 - 50$	c) $70 - 80$	d) 80 – 90			
41.	A sum of Rs 70	000 is divided among 2	A, B and C in s	uch a way that	the shares of A and B are in the		
	ratio 2:3 and t	hose of B and C are in	the ratio 4:5	The share of B	3 is		
	a) Rs 1600	b) Rs 2000	c) Rs 2400	d) Rs 3000			
42.	A sum of Rs 300 is divided among P , Q and R in such a way that Q gets Rs 30 more than P and R gets						
	Rs 60 more than Q . Then ratio of their shares is						
	*	b) 3 : 2 : 5	<i>'</i>	,			
43.					: 7 : 9 : 13. If the share of <i>B</i> is Rs		
	•	t will be the total amo	•	_			
	a) Rs 8352	b) Rs 6998 c) Rs	9784 d) Rs	7456 e) No	ne of the above		