## 18PDM301L - Analytical and Logical Thinking Skills Worksheet - RATIO PROPORTION AND VARIATION

	ges of this	•	r runs from page 261 e total number of pag D) 272 : 320	to page 272. The ratio of es of the book is			
A) 11 . 320 b) .	3.40	0) 3 . 00	D) 272 . 320				
2. In a box, the ratio of red balls to blue balls is 7:4. Which of the following could be the total number of balls in the box?							
A) 18 B)	19	C) 21	D) 22				
3. Sachin's total score in Maths and English is 150. If one third of the score in Maths is equal to half of the score in English, find his score in Maths.  A) 40  B) 60  C) 53  D) 90							
4. The sum of thre	ee numbe	rs is 147. If the	e ratio of the first to s	second is 2 : 3 and that of			
the second to the A) 30 B)	third is 5						
5. Seats for Mathematics, Physics and Biology in a school are in the ratio 5:7:8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?							
		C) 3:4:5	D) 4:5:6				
	s. 1,300 ir 300	the ratio 1/2 C) 400	: 1/3 : 1/4. Find the a D) 600	amount with A?			
7. The number of chocolates with A and B are in the ratio 3:5. If A gets 8 chocolates from his mother, the ratio becomes 4:5. Find the number of chocolates that A & B had initially.							
A) 24, 40	B) 32,	40	C) 20, 40	D) None of these			
8. A father had Rs 83,000. He divided the share among his three sons, such that four times the share of the first son, five times the share of the second son and seven times the share of the third son are equal. Find the amount with the first son.  A) Rs 40,000  B) Rs 35,000  C) Rs 50,000  D) Can't be determined							
9. The ratio of ages of two brothers is 3:4. After ten years, what will the ratio of their ages be?							
A) 1: 3	B) 1:	2	C) 2: 3	D) 4: 5			
10. The ages of 3 brothers are in continued proportion. If the second brother's age is 12 and the ages of the other two differ by 7, what is the age of the oldest brother?							
A) 16	B) 12		C) 18	D) 24			
11. The mean pro	portional B) 32	between 64 an	nd 16 is C) 48	D) 40			

			of 3, 15, 38 and 134 so that they should become		
	proportionate to eac A) 1	B) 2	C) 3	D) 4	
13. A bag has Rs 216 in the form of one rupee, 50 paise and 25 paise coins in the r 2:3:4. The number of 50 paise coins is					
	A) 96	B) 144	C) 114	D) 141	
	14. In a farm there a hens and cows are in	res is 100. The legs of the			
	A) 20	B) 40	C) 50	D) 30	
	15. If the ratio of are perimeters?	eas of two squares is	1075:688, then what	is the ratio of the	
	A) 4:5	B) 5:3	C) 5:2 D) 5:	4	
16. Five glasses of equal volume have milk in the ratio 3:4:5:6:7. If the total amount of milk in the five glasses is 50% of the total capacity of the five glasses, then in how many glasses are 40% full of milk?					
	A) 2	B) 3	C) 4	D) 5	
17. The ratio of green balls to red balls in a bag is 3:2. If 10 white balls are added to them, then the ratio of white, green and red balls becomes 5:6:4. How many green balls are there in the bag?  A) 8  B) 5  C) 6  D) 12					
18. There are some monkeys on two trees A and B. If 4 monkeys jump from tree A to tree B then the ratio of number of monkeys on tree A and tree B is 2:5. If 2 monkeys jump from tree B to tree A then the number of monkeys on tree A and tree B are equal. How many monkeys are there on tree B?					
	A) 16	B) 18	C) 14	D) 20	
19. An amount of Rs 2,430 is divided among three people A, B and C such that if their shares be reduced by Rs 5, Rs10 and Rs 15 respectively, the balance amounts with them would be in ratio of 3:4:5. What is B's share?					
	A) Rs 605	B) Rs 709	C) Rs 800	D) Rs 810	
	aredressed in blue. dressed in blue is 4: of boys dressed in b to the number of boys	The ratio of the numb 3 and the ratio of the lue is 4:5. The ratio o	er of boys dressed in number of girls dres of the number of boys n blue is 12:13. What itorium?	n white while the others white to the number of girls sed in white to the number and girls dressed in white is the ratio of the total nnot be determined	
	three pieces whose		io 1:2:3. As a result i	nt. The stone broke into ts cost reduces. If the cost due to breakage? D) Rs 8,028	

- 22. The compounded ratio of (2 : 3), (6: 11) and (11 : 2) is

  A) 1:2

  B) 2:1

  C) 11:24

  D) 36:121

  23. If (a/b) = (c/d) = (e/f) = (2/3) then find the value of  $(2a^2-3c^2+4e^2) / (2b^2-3d^2+4f^2)$ A) 3:5

  B) 2:3

  C) 4:9

  D) 4:5

  24. If  $(a^3+3ab^2) / (3a^2b+b^3) = (234 / 109)$  then find a / b

  A) 7:5

  B) 5:7

  C) 1:6

  D) 6:1
- 25. 11. The value of a precious stone varies directly as square of its weight. One such stone is broken into pieces with weights in the ratio of 2:3:4. If the loss due to breakage is Rs. 26,000, what was the price of the original stone?
- A) Rs 81,000 B) Rs 40,500 C) Rs 29,000 D) Rs 52,000