RATIO & PROPORTION, PARTENERSHIP – WORSHEET (BASIC)

RATIO & PROPORTION

MATIO & PROPORTION					
Q 1: If 18: x = x: 8, then x will b (a) 144	pe equal to (b) 72	TM	(c) 26	(d) 12	
Q 2: The ratio of two numbers the two numbers? (a) 12 and 15	s is 4:5. If 15 is a (b) 24 and 30		numbers, the ra (c) 36 and 45	(d) 40 and 50	
Q 3: Two numbers are respecti					
is: (a) 2:3	(b) 3:4		(c) 4:5	(d) 1:2	
Q 4: 4 numbers are in the ratio	o of 1:3:6:8 wher (b) 104		Find the bigg <mark>est</mark> (c) 88	t number? (d) 112	
Q 5: Seats in Wipro, TCS and 20%, 20% and 20%. What will			re is a p <mark>ropos</mark> al	to increase the seats by	
Q 6: The difference between product of the two numbers? (a) 375	two positive nu (b) 175		the ratio between (c) 275	en them is 5:3. Find the	
Q 7: In a bag there are coins of 5 p coins are there? (a) 50			1: 2: 3. If there is		
Q 8: The fourth proportional t (a) 20	o 3, 6, and 10 is: (b) 40	(c) 5		(d) 1.8	
Q 9. If $\frac{p}{q} = \frac{r}{s} = \frac{t}{u} = \frac{2}{3}$, th	en $\frac{3p+4r+5t}{3q+4s+5u} =$ (b) 1/2	(c) 4/5		(d) None of these.	
Q 10. The incomes of A and B are in the ratio 4:3 and their expenditures are in the ratio 2:1. If both A and B save Rs. 1000 each, their respective incomes are (a) Rs. 2000 and Rs. 1500 (b) Rs. 3000 and Rs. 2250					
(c) Rs. 4000 and Rs. 3000 (d) None of these Q 11. Jai spends 90% of his salary and Veer spends 85% of his salary. But savings of both are equal. Find the income of Veer, if sum of their incomes is Rs. 5000.					
(a) 1000 Q 12: If $8x^2 + 6y^2 = 19xy$, f	(b) 2000 ind the ratio of x	(c) 3000	101	(d) 1200	
(a) 2:1	(b) 3:8	(c) 1:2	1.00.1	(d) Cannot say	
Q 13. The incomes of Chan, Khan and Rhan are in the ratio of 8: 9: 13 and their expenses are in the ratio of 4: 5: 6. If Chan saves 1/5 th of his income, then what is the ratio of their savings? (a) 36: 14: 69 (b) 8: 5: 34 (c) 16: 5: 34 (d) None of these					
Q 14. A, B and C start a business. A invests 3 times as much as B invests two-third of what C invests. Then the ratio of capitals of A, B and C?					
(a) 3: 9: 2 (b) 6:	10. 13	(c) 5: 3: 2	(u) 0. Z	. •	

Q 15: A certain amount was divided between Joy and Toy in the ratio of 4:3. If Toy's share was Rs. 2400, the amount is:						
(a) Rs. 5600	(b) Rs. 3200	(c) Rs. 9600	(d) None of these			
Q 16: The prices of a scooter and a television set are in the ratio 3:2. If a scooter costs Rs. 6000 more than the television set, the price of the television set is: (a) Rs. 6000 (b) Rs. 10,000 (c) Rs. 12000 (d) Rs. 18000						
Q 17: Three friends divi friend is: (a) Rs. 288	ide Rs. 624 among then (b) Rs. 192	nselves in the ratio 1/2 (c) Rs. 148	: 1/3 : 1/4. The share of the third (d) Rs. 144			
the circle is:		efore, the ratio of the si	de of the square and the radius of			
(a) $\sqrt{\pi}:1$	(b) 1 : $\sqrt{\pi}$	(c) 1 : π	(d) π : 1			
Q 19: 8 times the salary the respective ratio of t		es the salar <mark>y of B</mark> is equ	al to 20 times the salary of C. find			
Q 20: Divide 1440 in the	e ratio of 5: 6: 13?					
PARTNERSHIP Q 21: Vishnu and Sidhu enter into a partnership. Vishnu invests 10000 rupees and Sidhu invests 8000 rupees in it for the same time period. Find the ratio of their profit? (a) 5: 4 (b) 1:2 (c) 2:3 (d) Indeterminate						
Q 22: A invests 400 rupees in business for 5 months whereas B invests 250 rupees in the same business for 10 months. Find the ratio of profit of A and B? (a) 1:2 (b) 3:1 (c) 5:8 (d) None of these						
Q 23: The ratio of profit (a) 4:3	of A and B is 4:3. Find t (b) 3:4	he ratio of their inve <mark>stm</mark> (c) 1:1	ent? (d) data insufficient			
Q 24: Ram invests 300\$ in business for 7 years whereas Shyam invests 700\$ in the same business for 2 years. Find the ratio of profit of Ram and Shyam?						
(a) 3: 2	(b) 3:1	(c) 5:8	(d) None of these			
Q 25: Karan and Arjun enter into a partnership. Karan invests Rupees 24000 for 10 months and Arjun remains in business for 5 months. Out of the total profit, Arjun claims half of the profit. How much money did Arjun contribute?						
(a) 24000	(b) 4800	(c) 48000	(d) 12000			
VARIATION Q 26. A varies directly as B. If B = 7 and A = 18, find A when B = 21? (a) 36 (b) 54 (c) 72 (d) 18						
Q 27. Y varies directly as third power of X. What is the percentage change in the value of Y, when X is halved?						
(a) -87.5%	(b) -75%	(c) -5%	(d) 12.5%			
Q 28. Price of a diamond is directly proportional to the square of its weight. A piece of diamond breaks into two pieces whose ration of weights is 3:4. What is the % profit or loss due to this breakage?						
(a) 77% MORE QUESTIONS	(b) 0%	(c) 252%	oss due to this breakage? (d) 73.4%			

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Q 29: An engineering college having 600 students collected fund to build a Chemical laboratory. The
amount contributed by each boy and girl was equal to their respective total numbers in the college. The
UGC grant was equal to the fund collected by the students. Ratio of boys and girls is 7: 3. What amount
was available to build the laboratory?

(a) Rs.208000

(b) Rs.416000

(c) Rs.352000

(d) Data insufficient

Q 30: One-fifth of the boys and three-seventh of the girls in a school participated in fancy dress competition. What fractional part of the students of the students participated for the competition?

(a) 4/13

(b) 4/12

(c) 1/12

(d) Data insufficient

RATIO & PROPORTION, PARTENERSHIP - WORSHEET (PROGRESSIVE)

Q 1: The cost of a certain necklace varies directly as the cube of the number of diamond beads in it. Once this diamond broke into three pieces with number of beads in the ratio of 1: 3: 5 respectively. When the three pieces were sold individually, the merchant got Rs. 19,200 less than the price the original necklace would have fetched him. What was the initial cost of the necklace?

(a) 2.76 lakh

(b) 7.29 lakh

(c) 2.43 lakh

(d) None of these

Q 2: An alloy contains silver, platinum and copper in the ratio 2:3:4. If silver is 10% impure, platinum is 12% impure and copper is 9% impure, then the purity of alloy is

(a) 91.67 %

(d) 89.77%

Q 3: If $\frac{a}{b} = \frac{2}{3}$, $\frac{b}{c} = \frac{3}{1}$, $\frac{c}{d} = \frac{4}{3}$, $\frac{d}{e} = \frac{1}{2}$, $\frac{e}{f} = \frac{3}{4}$. Find the value of $\frac{abc}{def}$

(d) 3/7

Q 4: Solve the equation $\frac{\sqrt{x+1} - \sqrt{x-1}}{\sqrt{x+1} - \sqrt{x-1}} = \frac{4x-1}{2}$

(d) None of these

Q 5: There are two containers: the first contains 800 ml of milk, while the second contains 800 ml of water. Three cups of milk from the first container is taken out and is mixed well in the second container. Then three cups of this mixture is taken out and is mixed in the first container. Let P denote the proportion of water in the first container and Q denote the proportion of milk in the second container. Then

(a) P is greater than Q

(b) Q is greater than P

(b) P is equal to Q

(d) Data is incomplete. Depends upon the quantity of cup.

Q 6: BJP, AAP, CONG and SP enter into a yearlong partnership. AAP and SP are sleeping partners who invest sum of Rs.100000 for 5 months and Rs.110000 for 6 months respectively. BJP invests Rs.30000 for 6 months besides working for 11 months. CONG only works for 9 months and does not contribute any money. The working partners receive a share of 1% of the total profit of every month of work, while the remaining profit is distributed amongst the partners in the ratio of their investments. If CONG receives a sum of Rs.3879 as profit at the end of the year, the total profit earned during the year is

Q 7: If $\frac{p}{q} = \frac{r}{s} = \frac{t}{u} = \frac{3}{7}$, then find the value of $\sqrt[\frac{13}{3}]{\frac{7p^{13} + 12r^{13} - 97t^{13}}{7q^{13} + 12s^{13} - 97u^{13}}}$

(c)27/343

(d) 343/27

Q 8: If $\frac{a}{b+c} = \frac{b}{c+a} = \frac{c}{a+b} = L$, then L cannot take any value except

(d)None of these

Q.9: A, B and C invest Rs.4000, Rs.5000 and Rs.6000 respectively, in a business. A gets 25% of profits for managing the business and the rest of the profit is divided among A,B and C in proportion to their investments. If in a year A gets Rs.100 less than B and C together, what was the profit that year? (a) Rs.500 (b) Rs.750 (c) Rs.1000 (d)Rs.12,00 Q. 10: The ratio of the incomes of A and B in 3: 1 and the ratio of their expenditure is 6: 5. B's savings equals 1/7 th of his income. What is A's expenditure, if A's savings amount to Rs.1150? (a) Rs.166.67 (b) Rs.600 (c) Rs.1000 (d) Rs.2000 Q.11: The cost of a certain necklace varies directly as the cube of the number of diamond beads in it. Once this diamond broke into 3 pieces with number of beads in the ratio 1: 3: 5 respectively. When the 3 pieces were sold individually, the merchant got Rs.19200 less than the price the original necklace would have fetched him. Originally the necklace was worth (a) Rs.2.76 lakh (b) Rs.7.29 lakh (c) Rs.2.43 lakh (d)None of these Q.12: Y varies directly as the 4 th power of X. What is the percentage change in the value of Y, when X is halved? (a) -87.5% (b) -93.75% (c) -6.25% (d) 12.5% Q.13: A right cylinder and a right circular cone have the same radius and the same volume. The ratio of the height of the cylinder to that of the cone is: (a) 3:5 (b) 2:5 (c) 3:1 (d) 1:3 Q.14: In a class, the number of boys is more than the number of girls by 12% of the total strength. The ratio of boys to girls is: (a) 11:4 (b) 14:11 (c) 25:28 (d) 28:25 Q.15: A, B and C do a work in 20, 25 and 30 days respectively. They undertook to finish the work together for Rs. 2220, and then the share of A exceeds that of B by: (a) Rs. 120 (b) Rs. 180 (c) Rs. 300 (d) Rs. 600 Q. 16: Salmaan, Shahrukh and Aamir enter into a partnership and their capitals are in the proportion $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} :$ Salmaan withdraws half of his capital at the end of 4 months. Out of the total annual profit of Rs. 847, Salmaan shares would be (a) Rs.25
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and silver in C will be: (a) 5: 9
(a) 1 (b) 2 (c) -2 (d) 3
20: Chavanni and Athanni start a business and each invests Rs.8000. After 6 months, Chavanni withdraws half of his capital and Athanni invests the amount withdrawn by Chavanni. If at the end of the year Chavanni gets Rs.7822 as his share of profits, find Athanni share?

(a) Rs.13036

(b) Rs.4693

(c) Rs.12099

(d) Rs.11099



A I IVI

ANSWER KEY (BASIC)

				_	
Q 1: d	Q 2:	С	Q 3: b	Q 4: a	Q 5: 2: 3: 5
Q 6: a	Q 7:	С	Q 8: a	Q 9: d	Q 10: a
Q 11: b	Q 12:	d	Q 13: d	Q 14: d	Q 15: a
Q 16: c	Q 17:	d	Q 18: a	Q 19: 15: 10: 6	Q 20: 300, 360, 780
Q 21: a	Q 22:	d	Q 23: d	Q 24: a	Q 25: c
Q 26: b	Q 27:	а	Q 28: d	Q 29: b	Q 30: d

ANSWER KEY (Progressive)

Q 1: d	Q 2: d	Q 3: a	Q 4: a	Q5: c
Q 6: c	Q 7: c	Q 8: c	Q 9: c	Q 10: b
Q 11: d	Q 12: b	Q 13: d	Q 14: b	Q 15: b
Q 16: b	Q 17: c	Q 18: c	Q 1 <mark>9:</mark> b	Q 20: a

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