Mixed Questions

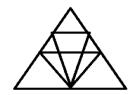
1. Bottle 1 contains a mixture of milk and water in 7:2 and Bottle 2 contains a mixture of milk and water in 9:4. In what ratio of volumes should the liquids in Bottle 1 and Bottle 2 be combined to obtain a mixture of milk and water in 3:1?						
A. 27:14	B. 27:13	C. 27:16	D. 27:18			
2. Out of the shirts produced in a factory, 15% are defective, while 20% of rest are sold in the domestic market. If the remaining 8840 shirts are left for exports, then the number of shirts produced in the factory is						
A. 13600	B. 13000	C. 13400	D. 14000			
3. If 738A6A is divisib	le by 11, then the valu	e of A is				
A. 6	B. 9	C. 3	D. 4			
4. Excluding stoppages, the speed of a bus is 80 kmph and including stoppages, it is 60 kmph. For how many minutes does the bus stop per hour?						
A. 12	B. 15	C. 18	D. 20			
5. If a train runs with the speed of 48 kmph, it reaches its destination late by 12 minutes. However, if its speed is 64 kmph it is late by 3 minutes only. The right time to cover its journey (in minutes) is:						
A. 24	B. 18	C. 20	D. 22			
6. The sum of income of A, B, C is Rs. 30000. A, B, and C spend 75%, 70% and 62% of their income. If their savings are in ratio 20: 21: 19. Then what are their salaries? A. 12000, 10500, 7500						
B. 12000, 10000, 800	0					
C. 10000, 12000, 800	0					
D. 8000, 16000, 6000						
7. A does 80% of a work in 20 days. He then calls in B and they together finish the remaining work in 3 days. How long B alone would take to do the whole work?						
A. 23 days						
B. 37 days						
C. 37.5 days						
D. 40 days						
E. None of these						

8. There were 8 participants in challenge of Shooting and the average score was 87. The winner got 2 more score than the first runner up. Average of rest 6 participants is 85. What are the scores of winner and 1st runner up?

A. 94, 92	B. 90, 92	C. 94, 96	D. 88, 90			
9. The profit percentage on the three articles A, B and C is 10%, 20% and 25% and the ratio of the cost prices is 1 : 2 : 4. Also the ratio of number of articles sold of A, B and C is 2 : 5 : 2, then the overall profit percentage is.						
A. 21%	B. 23%	C. 19%	D. 24%			
10. The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum?						
A.8	B.10	C.12	D. Cannot be determined E. NOT			
11. Statements:						
Some additions are su	ubtractions.					
No subtraction is mul	tiplication.					
All multiplications are divisions						
Conclusions:						
Some divisions are additions						
Some multiplications are additions						
No division is addition						
A. None follows						
B. Only I follows						
C. Only II follows						
D. Only either I or III follows						
E. Only III follows						
12. Statements:						
All poles are fans.						
All fans are stands.						
Some stands are lines.						
Some lines are boxes.						
Conclusions:						
Some boxes are poles.						
Some fans are boxes.						

Some lines are poles.

Some lines are fans.					
A. All not follows					
B. Only I and II not fo	llow				
C. Only II and IV not f	ollow				
D. Only III and IV not	follow				
E. Only I, II and IV not	follow				
then turning to his rig	ght (drives towards We	est) another 10 km. He	d takes a drive of another 10 km. He then turns to his left & walks another ne from his initial point & in which		
C. 16 km West					
D. 10 km South					
E. None of these					
14. If A + B means A is the mother of B; A – B means A is the brother B; A % B means A is the father of B and A x B means A is the sister of B, which of the following shows that P is the maternal uncle of Q? A. Q – N + M x P B. P + S x N – Q C. P – M + N x Q D. Q – S % P					
15. 10, 11, 13, 21, 69,		0.450	D 000		
A. 384	B. 490	C. 453	D. 390		
16. 3, 5, 14,, 2 A. 42	107 В. 28	C. 30	D. 16		
17. Position of Atul in a row is 26th from the right side of the row. He is sitting 38th from the left side of the row. Find out the total number of people in the row.					
A. 62	B. 63	C. 64	D. 65		
18. Wine is related to A. Flour	Grapes in the same w B. Oranges	vay as Vodka is related C. Potatoes	to D. Apples		



A. 12 B. 18 C. 22 D. 26

20. A man pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother." How is the lady in the photograph related to the man's sister who has no other sister?

A. Mother

B. Cousin

C. Mother—in—law

D. Sister—in—law

Bottle - 1:
$$\frac{7}{9}$$
, $\frac{2}{9}$, $\frac{2}{13}$

Total =
$$(\frac{71}{9} + \frac{97}{13})$$
, $(\frac{91}{9} + \frac{47}{13})$

$$\therefore \frac{7x}{9} + \frac{9y}{13} = 3 \left(\frac{2x}{9} + \frac{4y}{10} \right)$$

$$\frac{91x + 81y}{9x13} = \frac{3(26x + 36y)}{9x13}$$

$$\frac{x}{y} = \frac{27}{13}$$

$$(2\times 35)$$
 $\times \frac{40}{100}$ 2 8840

$$\therefore \chi = \frac{\frac{9210}{8840 \times 100}}{17 \times 4} = 13000$$

10 1

:. Moving time = $\frac{60}{90} h = \frac{3}{4} h = 45 min$

a)
$$\frac{d}{48} = t + \frac{1}{5}$$

b)
$$\frac{d}{64} = t + \frac{1}{20}$$

 $\Rightarrow 48(t + \frac{1}{5}) = 64(t + \frac{1}{20})$

$$= 3t + \frac{3}{5} = 4t + \frac{4}{20}$$

$$=$$
 $0 + = \frac{3}{5} - \frac{1}{5} = \frac{2}{5} = 224 \text{ mins}$

$$A \Rightarrow \frac{20 \, \text{n}}{60} = 25 \%$$

$$300\% = \frac{200}{60} \times \frac{100^4}{25} = \frac{800}{60}$$

$$- \beta \rightarrow \frac{21x}{60} = 30\%$$

$$0. 100\% = \frac{21x}{60} \times \frac{100}{30} = \frac{70x}{60}$$

$$\frac{19 \, \text{k}}{60} = 38 \, \%$$

$$\frac{19 \, \text{k}}{60} = \frac{19 \, \text{k}}{60} \times \frac{100 \, \%}{38 \, \%} = \frac{50 \, \text{k}}{60}$$

$$\frac{200 \text{ N}}{60} = 30000$$

$$\frac{200 \text{ N}}{60} = 30000$$

." K= 9000

$$A = \frac{8}{6} \times 9000 = 12000$$

$$\theta = \frac{7}{6} \times 9000 = 10500$$

$$\overrightarrow{1}$$
 A \rightarrow 25 days | A+B \rightarrow 15 days

$$A \rightarrow 25 \text{ days}$$
 $A \rightarrow \text{one day} \rightarrow \frac{1}{25}$
 $A+B \rightarrow 1 \text{ days} \rightarrow \frac{1}{15}$

Overall profit = 0.21+2x+2x ×100 2x+10x+ 8x = 4.2 x X+00 = 4.2 X5 = 21 % :. Option: A) 21% $-P(\frac{2r}{100}) + P(1+\frac{r}{100})^2 - P = 96$ $\left(1 + \frac{r}{100}\right)^2 - \frac{2r}{100} - 1 = \frac{96}{15000}$ $=) \frac{100 + 7 + 2}{100} = \frac{96}{15000}$ $= \frac{1}{100} + \left(\frac{r}{100}\right)^{2} + \frac{2r}{100} - \frac{2r}{100} = \frac{96}{15000}$ $=\frac{\chi^2}{10000} = \frac{96}{15000}$:. option: A) 8 Statements: some additions are substractions. No substraction is multiplication. multiplications are divisions. Conclusions: some divisions are addition. some multiplications are additions. No division is addition.

ophon: E) only III follows 12) A) All not follows 13 option: B) 18 km south. $A+B \rightarrow A$ mother $A-B \rightarrow A$ brother $A \% B \rightarrow A$ father $A \% B \rightarrow A$ sixtor $A \% B \rightarrow A$ sixtor 14] AXB -> A sister 15 1×2 1 2×4 1 8×6 1 48×8 option: (c) 453 16] $5 \qquad 14 \qquad \left(\begin{array}{c} 30 \\ 42 \end{array}\right)$ 107 2×10+3 = 23

-38th

26t = 25

37

26t = 25

26t = 25

26t = 63

Option: 6) 63

18) Wine: arapes: Vodkai: Potatoes

Option: e) Potatoes



3 + 3 + 3 + 60 91

Ophon: 3) 18

A) Mother