	to 40% of the new mixture?							
	(a) 40 gals (b) 50 g	gals						
	(c) 80 gals (d) 33 g	gals						
2.	2. 800 students took the CAT example.	n in Delhi. 50% of						
	the boys and 90% of the girls cleared the cut off in the examination. If the total percentage of qualify-							
	ing students is 60%, how many girls appeared in the							
	examination?							
	(a) 100 (b) 120							
	(c) 150 (d) 200							
3.	3. If 10 kg of sugar costing ₹15/k	g and 20 kg of salt						
	the average cost of							
the mixture in ₹ per kilogram.								
	(a) 11.67 (b) 12.3							
	(c) 12.67 (d) 11.3							
4. The average salary per head of all workers (Grade A and Grade B) of a company is ₹ 400. The aver-								
							age salary of 100 grade A worke	
	average salary per head of the							
	workers is ₹ 300, find the total	number of workers						
	in the company.							
	(a) 1000 (b) 800							
~_	(c) 500 (d) 700							
5.								
	of ₹ 100 per quintal and ₹ 160							
	quintals of the second quality,							
	the first quality should be mixed the regulting mixture at ₹ 105 m							
	the resulting mixture at ₹ 195 p a profit of 30%?	er quintar, ne gams						
	(a) 10 quintals (b) 14 c	mintals						
		ne of these						
6.								
0.	₹10/kg respectively are mixed in							
	mixture having the rate of ₹9.20/kg. What should be							
	7	the amount of the second type of milk if the amount						
	of the first type of milk in the mixture is 20 kg?							
	(a) 25 kg (b) 30 k	The state of the s						
	(c) 40 kg (d) 20 k	-						
7.								
	should be mixed with 10 kg of salt worth ₹420 per							
		kg, such that by selling the mixture at ₹ 480 per kg,						
	there may be a gain of 20%?							
	(a) 5 kg (b) 3 kg	5						
	(c) $2 \text{ kg}$ (d) $4 \text{ kg}$	Ţ						
8.	R. Kiran lends ₹ 1000 on simple in	nterest to Harsh for						

a period of 5 years. She lends a part of the amount

1. A mixture of 160 gallons of wine and water contains

25% water. How much water must be added to the

mixture in order to increase the percentage of water

at 2% interest and the rest at 8% and receives ₹ 300 as the amount of interest. How much money (in ₹) did she lend on 2% interest rate?

(a) 333.33

(b) 666.67

(c) 400

(d) 500

9. A tank contains 500 liters of wine. 50 liters of wine is taken out of it and replaced by water. The process is repeated again. Find the proportion of water and wine in the resulting mixture.

(a) 1:4

(b) 41:50

(c) 19:81

(d) 81:19

10. A man purchased a table and a chair for ₹2000. He sold the table at a profit of 20% and the chair at a profit of 40%. In this way, his total profit was 25%. Find the cost price (in  $\mathbb{T}$ ) of the table.

(a) 1500

(b) 900

(c) 1000

(d) 800

11. A dishonest shopkeeper purchased milk at ₹100 per litre and mixed 10 liters of water in it. By selling the mixture at the rate of ₹ 100 per litre he earns a profit of 25%. The quantity of the amount of the mixture that he had was:

(a) 50 liters

(b) 40 liters

(c) 25 liters

(d) 60 liters

12. A tank has a capacity of 10 gallons and is full of alcohol. 2 gallons of alcohol are drawn out and the tank is again filled with water. This process is repeated 5 times. Find out how much alcohol is left in the resulting mixture finally?

(a) 2048/625 gallons (b) 3346/625 gallons

(c) 2048/3125 gallons (d) 625 gallons

13. A vessel is full of milk 1/4 of the milk is taken out and the vessel is filled with water. If the process is repeated 4 times and 100 liters of milk is finally left in the vessel, what is the capacity of the vessel?

(a) 25600/243 liters

(b)  $\frac{2461}{81}$  liters

(c) 25600/81 liters

(d) 30 liters

14. In what ratio should two qualities of tea having the rates of ₹ 40 per kg and ₹ 30 per kg be mixed in order to get a mixture that would have a rate ofRs 35per kg?

(a) 1:2

(b) 1:1

(c) 1:3

(d) 3:1

15. Raman steals four gallons of liquid soap kept in a train compartment's bathroom from a container that is full of liquid soap. He then fills it with water to avoid detection. Unable to resist the temptation he

steals 4 gallons of the mixture again, and fills it with					
water. When the liquid soap is checked at a station					
it is found that the ratio of the liquid soap now left					
in the container to that of the water in it is 36: 13.					
What was the initial amount of the liquid soap in					
the container if it is known that the liquid soap is					
neither used nor augmented by anybody else during					
the entire period?					

- (a) 7 gallons
- (b) 14 gallons
- (c) 21 gallons
- (d) 28 gallons
- 16. In what ratio should water be mixed with soda costing ₹12 per litre so as to make a profit of 50% by selling the diluted liquid at ₹15 per litre?
  - (a) 10:1
- (b) 5:1
- (c) 1:5
- (d) 6:1
- 17. A sum of ₹ 4 is made up of 20 coins that are either 10 paise coins or 60 paise coins. Find out how many 20 paise coins are there in the total amount.
  - (a) 10
- (b) 13
- (c) 16
- (d) 15
- 18. Pinku a dishonest grocer professes to sell pure butter at cost price, but he mixes it with adulterated fat and thereby gains 25%. Find the percentage of adulterated fat in the mixture assuming that adulterated fat is freely available.
  - (a) 20%
- (b) 25%
- (c) 33.33%
- (d) 40%
- 19. A mixture of 75 liters of alcohol and water contains 20% of water. How much water must be added to the above mixture to make the water 25% of the resulting mixture?
  - (a) 5 liters
- (b) 1.5 litre
- (c) 2 liters
- (d) 2.5 liters
- 20. A mixture of 40 liters of milk and water contains 10% water. How much water should be added to it to increase the percentage of water to 25%?
  - (a) 5 liters
- (b) 6 liters
- (c) 2.5 liters
- (d) 8 liters
- 21. Two vessels contain a mixture of spirit and water. In the first vessel the ratio of spirit to water is 8:3 and in the second vessel the ratio is 5:1. A 35 litre cask is filled from these vessels so as to contain a mixture of spirit and water in the ratio of 4:1. How many liters are taken from the first vessel?
  - (a) 11 liters
- (b) 22 liters
- (c) 16.5 liters
- (d) 17.5 liters
- 22. There are two mixtures of milk and water, the quantity of milk in them being 20% and 80% of the mixture. If 2 liters of the first are mixed with three liters of the second, what will be the ratio of milk to water in the new mixture?
  - (a) 11:12
- (b) 11:9
- (c) 19:11
- (d) 14:11

- 23. There are two kinds of alloys of silver and copper. The first alloy contains silver and copper such that 93.33% of it is silver. In the second alloy there is 86.66% silver. What weight of the first alloy should be mixed with some weight of the second alloy so as to make a 100 kg mass containing 90% of silver?
  - (a) 55 kg
- (b) 50 kg
- (c) 70 kg
- (d) 25 kg
- 24. Two buckets of equal capacity are full of a mixture of milk and water. In the first, the ratio of milk to water is 1:7 and in the second it is 3:8. Now both the mixtures are mixed in a bigger container. What is the resulting ratio of milk to water?
  - (a) 35:141
- (b) 42:49
- (c) 43:41
- (d) 41:53
- 25. A bag contains a total of 105 coins of ₹1, 50 p and 25 p denominations. Find the total number of coins of ₹ 1 if there are a total of 50.5 rupees in the bag and it is known that the number of 25 paise coins are 133.33% more than the number of 1 rupee coins.
  - (a) 56
- (b) 25
- (c) 24
- (d) None of these
- 26. Two vessels contain spirit and water mixed respectively in the ratio of 1: 4 and 4: 1 Find the ratio in which these are to be mixed to get a new mixture in which the ratio of spirit to water is 1: 3.
  - (a) 11:1
- (b) 13:1
- (c) 11:2
- (d) 11:3
- 27. The price of a table and a chair is ₹3000. The table was sold at a 20% profit and the chair at a 10% loss. If in the transaction a man gains ₹ 300, how much is cost price (in ₹) of the table?
  - (a) 1000
- (b) 2500
- (c) 2000
- (d) None of these
- 28. A person purchased a pen and a pencil for ₹ 15. He sold the pen at a profit of 20% and the pencil at a profit of 30%. If his total profit was 24%, find the cost price of the pen.
  - (a) ₹10.50
- (b) ₹12
- (c) ₹9
- (d) ₹10
- 29. A container is full of a mixture of kerosene and petrol in which there is 18% kerosene. Eight liters are drawn off and then the vessel is filled with petrol. If the kerosene is now 15%, how much does the container hold?
  - (a) 40 liters
- (b) 32 liters
- (c) 36 liters
- (d) 48 liters
- 30. Two solutions of 80% and 87% purity are mixed resulting in 35 liters of mixture of 84% purity. How much is the quantity of the first solution in the resulting mixture?
  - (a) 15 liters
- (b) 12 liters
- (c) 9 liters
- (d) 6 liters

	legs are 448. What will be the notate the zoo? (a) 36 (b) 88	umber of lions in		gains 11.11%. Fin him in every liter (a) 0.111 liters	d the quantity of water mixed of milk.  (b) 0.909 liters	by
	(c) 44 (d) 136			(c) 0.1 litre	(d) 0.125 liters	
32.	A bonus of ₹ 1,00,000 was divided ers of a factory. Each male worker and each female worker gets 100 number of male workers in the fa (a) 250 (b) 375	r gets 500 rupees rupees. Find the	37.	so as to gain 10% price of the hone available) (a) 1:4	n must water be mixed with ho by selling the mixture at the cay? (Assume that water is free (b) 1:5	cost
	(c) 290 (d) 125			(c) 1:6	(d) 1:10	
	What will be the ratio of honey final solution formed by mixing that are present in three vessels of the ratios 4:1, 5:2 and 6:1 respect (a) 166:22 (b) 83:22 (c) 83:44 (d) None	honey and water equal capacity in ively? 2 of these		of milk and he rephaving 20% milk 25% milk. How n (a) 80% (c) 85.71%	nilk from a can that contained 5 laced what he had stolen with n. The bottle then contained contained of the bottle did he steal (b) 83.33% (d) 88.88%  ₹ 10,000, lent a part of it at	nilk only ?
	A mixture worth ₹ 80 a kg is form types of flour, one costing 50 per 1110 per kg. In what proportion mumixed?  (a) 1:1 (b) 1:2 (c) 2:1 (d) 1:3	kg while the other est they have been		simple interest ar interest. Her total Find the sum lent (a) ₹1666.67 (c) ₹3333.33	nd the remaining at 20% simincome after 5 years was ₹75	ple 500.
35.	A 10 percent gain is made by selling the mixture of two types of milk at ₹ 48 per kg. If the type costing ₹ 61 per kg was mixed with 100 kg of the other, how many kilograms of the former was mixed?  (a) 38 kg  (b) 30.5 kg  (c) 19 kg  (d) Cannot be determined			partly by foot and partly on a bicycle, his speed on foot being 10 km/h and that on bicycle being 20 km/h, what distance would he travel on foot?  (a) 20 km  (b) 30 km  (c) 50 km  (d) 60 km		
	1. (a)	2. (d)		3. (a)	4. (d)	
		6. (b)		7. (a)		
					8. (a)	
		10. (a)		11. (a)	12. (a)	
		14. (b)		15. (d)	16. (c)	
	17. (c)	18. (a)		19. (a)	20. (d)	
	21. (a)	22. (d)		23. (b)	24. (a)	
	25. (c)	26. (a)	3	27. (c)	28. (c)	
		30. (a)		31. (c)	32. (d)	
		34. (a)		35. (d)	36. (a)	
		38. (b)		39. (b)	40. (d)	

36. A man buys milk at ₹85 per liter and dilutes it with

water. He sells the mixture at the same rate and thus

31. In the Delhi zoo, there are lions and there are hens.

If the heads are counted, there are 180, while the