## **Percentages**

1.	In an examination, 40% marks are required to pass the exam. X obtains 10% less tha			
the number of marks required to pass. Y obtains $11\frac{1}{9}\%$ less than X and Z obtained 4				
	less than the number of marks o	btained by X and	l Y together. Wha	t marks did Z get?
	a) 50 b) 40	c) 35	d) 45	
2.	. Bittu spends 40% of his salary of	on food items, 5	50% of remaining	on transport, 30% of
	remaining after spending on foo	od and transpor	t; he spends on	clothes and saves the
	balance. If he saves Rs. 630 every	y month, what is	his monthly salar	·y?
	a) 1500 b) 3000	c)5000	d)6500	
3.	. The Rice sold by grocer contained	ed 10% low qua	lity rice. What qu	antity of good quality
	rice should be added to 150 k	g of rice so th	at the percentag	ge of low quality rice
	becomes 5%?			
	a) 50 b) 85	c) 135	d) 150	
4.	. The present population of a tow	n is 5500. If the	number of males	increased by11% and
	the number of females increased	d by 20%, then t	he population wil	l becomes 6330. What
	is the present population of fema	ales in the town?	?	
	a) 2000 b) 2500	c)3000	d) 3500	
5.	. A Plant was planted 3 years ago.	. The rate of its $\epsilon$	growth is 30% per	r annum. If at present,
	the height of the plant is 670 cm	, what was it wh	en the plant was	planted?
	a) 305 cm b) 405 cm	c) 500 cm	d) 625	cm
6.	. When the price of salt was increa	ased by 32%, a fa	amily reduced its	consumption in such a
	way that the expenditure on salt was only 10% more than before. If 30 kg per mor			
	were consumed before, find the	new monthly co	nsumption?	
	a) 42 b) 35	c) 25	d) 16	
7.	. A man income is increased by F	Rs 1200 and at s	same time the ra	te of tax to be paid is
reduced from 12% to 10%. He now pays the same amount of tax				as before. What is his
	increased income, if 20% of his in	ncome is exempt	ed from tax in bo	th cases?
	a) 6300 b) 7200	c) 4500	d) 6500	)
8.	. Mr. Pedu buys a generator for R	s 1 lakh and rent	it. He puts 12.5%	6 of each month's rent
	aside for upkeep and repairs pa	y Rs 325 per yea	ir as taxes and re	alize 5.5% annually on
	his investment. Find the monthly	rent?		
	a) 634.76 b) 654.76	c) 554.76	d) 456.	32
9.	. Ajju factory kept increasing its	output by the	same percentage	every year. Find the
	percentage if it is known that his	output is double	ed after two years	5?
	a) 100 √2% b) 100 (√2	+ 1)% c) 10	00 (√2 - 1)%	d) 50 (v3 - 1)%

The effect on the re-	The effect on the revenue derived from it is P% change. Find the value of P?					
a) 1 b) 2	c) -	1	d) -2			
11. A solution of Honey	syrup has 15% hon	ey. Another solu	tion has 5% honey. How man	ıy		
liters of the second	liters of the second solution must be added to 20 L of first solution to make a solution of					
10% honey ?	10% honey ?					
a) 10 L b) 5 L	c) 1	.5 L d) 20	L			
12. Two gallons of a mi	xture of milk and wa	ater contain 12%	of water. They are added to	3		
gallons of another i	mixture, containing	7% of water and	I half a gallon of water is the	n		
added to the whole.	Find the percentage	of water in the r	resultant mixture?			
a) $17\frac{3}{11}\%$ b) 16	$\frac{12}{11}$ % c) 1	$4\frac{1}{11}1\%$	d) None of these			
==	==		e same number is 135.10. Wha	at		
is 40% of that numb	er?					
a) 394 b) 37	0 c) 378	d) 386	6			
14. In an examination S	ohit obtained 20% n	nore than Rohit b	out 10% less than Rajesh. If th	e		
marks obtained by F	Rohit are 1080, find	the percentage r	narks obtained by Rajesh if th	e		
full marks are 2000?						
a) 72% b) 78.	.33% c) 8	6.66%	d) None of these			
15. Out of the total pro	oduction of copper	from ore, 20% o	of the ore gets wasted. Out o	)f		
remaining copper only 25% is pure copper. If the pure copper obtained in a year was						
_	80000 kg, then the quantity of ore in year is					
a) 400000 kg b) 50	<u> </u>					
16. The population of a City is 10000. If the population increased by 10% in first year, 20% in						
-	•	-	be its population after 3 year ?	)		
a) 13860	b) 11540	c) 12860	d) 12540			
•		-	spirit is replaced by containin	_		
	e percentage of wa	ter is found to I	be 26%. The quantity of spir	it		
replaced is	1	3	4			
a) $\frac{2}{3}$	b) $\frac{1}{3}$	c) $\frac{3}{7}$	d) $\frac{4}{7}$			
18. One liter of water	is evaporated from	6 L of solution	containing 5% sugar. Find th	e		
percentage of sugar	in the remaining sol	ution?				
a) 8%	b) 10% c) 6	3%	d) 4%			
			n. Anu gets 65% of total vali			
			of valid votes that the other	٢٠		
candidate Manu get						
a) 1575	b) 1625	c) 1675	d) 1525			

10. The tax on a commodity is diminished by 10% and its consumption increased by 10%.

correction made by candidate from his state  a) 28.56 b) 20  21. In a Hindi exam, a student scored 30% in should he score in the second paper (out overall?  a) 75% b) 80% c) 74%  22. The present worth of bill due 7 months hen of 2 \frac{1}{2} year, its present worth would be Rs 10	c) 25 d) None of these first paper out of total of 180. How much of 150) if he is to get at least 50% marks			
<ul> <li>21. In a Hindi exam, a student scored 30% in should he score in the second paper (out overall?</li> <li>a) 75%</li> <li>b) 80%</li> <li>c) 74%</li> <li>22. The present worth of bill due 7 months here</li> </ul>	first paper out of total of 180. How much of 150) if he is to get at least 50% marks d) 84%			
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overall? a) 75% b) 80% c) 74% 22. The present worth of bill due 7 months hen	d) 84%			
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22. The present worth of bill due 7 months hen	,			
	ice is ks 1200. If the bill were due at the end			
of 2 = year, its present worth would be ks it	116. The rate percent of the hill is			
\ 460/				
a) 16% b) 8%	c) 10% d) 18%			
23. Is A is 150% of B, then B is what percent of A				
a) $33\frac{1}{3}\%$ b) 40% c) 75%	d) 80%			
24. The price of diesel is increased by 25%. Ho	w much percent must a truck owner reduce			
his consumption of diesel as to increase his	expenditure on diesel?			
a) 25% b) 50% c) 30%	d) 20%			
25. 50 g of an alloy of copper and lead contains	80% copper (by wt). The quantity of copper			
that is to be mixed up with this alloy, so that	t it may contain 95% copper is			
a) 200 g b) 50 g c) 150 g	d) 10 g			
26. From the income of an employee, 10% is de				
-	r this expenditure he is left with Rs 1377. His			
income is				
a) 2000 b) 2040 c) 2100	•			
27. In a test, there were 2000 candidates, out of which 900 candidates were Men and the				
	women passed, then the total percentage of			
failed candidates is	0/			
a) 68.5% b) 64.7% c) 35.3°	•			
28. If the price of beer increases by 30%, find				
reduced so that expenditure may remain the				
	% d) 19%			
a) 30% b) $23\frac{1}{13}\%$ c) $27\frac{2}{13}$	70 U) 1370			
a) 30% b) $23\frac{1}{13}\%$ c) $27\frac{2}{13}$ 29. In a factory, there are 75% skilled workers				
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a) 30% b) $23\frac{1}{13}\%$ c) $27\frac{2}{13}$ 29. In a factory, there are 75% skilled workers 20% of unskilled are permanent. If number number of total workers?	and remaining unskilled.80% of skilled and of temporary worker is 126, then what is the			

20. In a medical certificate by mistake a person gave his height as 25% more than actual. In

30. There were two parties in an election. 10% of voters did not vote. 60 votes were declared invalid. The elected party got 308 votes more than his opponent. If elected party got 47% of total votes, how many votes did each party get?				
a) 2316 & 2012 b) 2629 & 2324 c) 2871 & 2575 d) 2914 & 2606				
31. If the height of a triangle is decreased by 40% and base increased by 40%, wha	t is the			
effect on its area?	t is the			
a) No Change b) 8% decrease c) 16% decrease d) 16% increas	۵			
32. Population of a Colony is 296000 out of which 166000 are Boys. 50% of population of a Colony is 296000 out of which 166000 are Boys.				
literate. If 70% males are literate, then the number of Girls, who are literate, is	ation 13			
a) 32200 b) 31800 c) 66400 d) 48000				
33. The population of a Country is increases at a rate of 4% per annum. Then	e is an			
additional annual increase of 1% in the population due to new born babie				
percentage increase in the population after 2 year is				
a) 10% b) 10.25% c) 10.50% d) 10.75%				
34. The population of Virus culture doubles every 2 min. approximately, how many r	ninutes			
will it take for the population to grow from 1000 to 500000 bacteria?				
a) 10 min b) 12 min c) 14 min d) 18 min				
35. If p% of S is equal to q% of T, then r% of T is what percent of S?				
a) r% b) $\frac{pr}{q}$ % c) $\frac{qr}{p}$ % d) pqr %				
36. G% of H is H% of				
a) G b) $\frac{H}{100}$ c) $\frac{G}{100}$ d) 100G				
37. A person receives a 5% raise. A year later, the person receives a 2.5% cut in pay a	nd now			
the amount is Rs. 22702.68. What was his amount to begin with?				
a) 22000 b) 22176 c) 25000 d) 22193				
38. A reduction of 20% in the price of Flour enables a purchaser to obtain $2\frac{1}{2}$ kg more	for Rs.			
160. Find the original price per kg of Flour.				
a) 12 b) 15 c) 16 d) 18				
39. Which of the following multipliers will cause a number to be increased by 25.3%	?			
a) 12.53 b) 125.3 c) 1.253 d) 1253				
40. When the price of a TV was reduced by 20%, its sale increased by 80%. What v	vas the			
net effect on the sale?				
a) 44% increase b) 445 decrease c) 66% increase d) 75% increase				
a) 4470 mercase b) 445 decrease e) 0070 mercase d) 7570 mercase				
41. How many liters of pure juice are there in 8 liters of a 20% solution?				
41. How many liters of pure juice are there in 8 liters of a 20% solution? a) 1.5 b) 1.6 c)1.7 d)1.8	etrol,			
41. How many liters of pure juice are there in 8 liters of a 20% solution?	etrol,			

43.	3. If number A is 10% less than another number A1 and A1 is 10% more than 125, then find out the value of A				
	a)123.55	b)123.	65 c)1	23.75	d) 123.85 Comment
	on thi4s ques				
	_	•	ed by 50% in first ye	_	•
	second year. How much percent does he loss in his salary during these two years.				
	a) 75	b) 65	c) 4	15	d) 25
45.	45. An employee multiplied his salary by 3/5 instead of 5/3. What is the % error in his salry				the % error in his salry.
	a) 64%	b) 65%	c) (	66%	d) 67%
			s 200, then find the		1 J and L.
	a)L = J	b)2L =	J	c) L = 2J	d)
	None of above	9			
	47. Total number of boys and girls in a institute is 150. If the number of boys is B, then girls become B% of the total number of students in the institute. The number of boys is a) 50 b) 60 c) 70 d) 80				
	_			(	
	-	_	-		B as a percentage of A.
	a) 62%	b) 73%	6 C)	41%	d) 57%
49.	Two students a	appeared at an	examination. One	of them secured 9	marks more than the
other and his marks was 56% of the sum of their marks. The marks obtained by them are:					
А	۸. 39 <i>,</i> 30	B.41, 32	2 C. 4	2, 33	D.43, 34.
50. C	One bacterium	splits into eigh	nt bacteria of the ne	ext generation. Bu	t due to environment
only 50% of one generation can produce the next generation. If the seventh generation number					nth generation number
is 4096 million, then what was the number in first generation?					
(	(a) 1 million	(k	o) 2 million	(c) 4 millio	n (d) 8
million					
51) If K	(en's salary we	re 20% higher,	it would be 20% le	ss than Lorena's. I	f Lorena's salary is
\$60,000	0, what is Ken'	s salary?			
A. \$50,0	000	B. \$40,000	C. \$30,000	D. Nor	ne of the above