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What percent of total spending was on chole bhature?



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MODEL QUESTIONS

Directions (Q.No.1-5) : Study the following graph carefully and answer the questions below.

The given pie-chart shows the distribution of spending on different food items.



1. What percent of total spending was on chole bhature? b) 10% a) 12.78% 1) 11 0 5 6

c) 13.9%	d)	11.95%
e) 14.23%		
TD1		

2. The amount spent on prawns is how much percent more than that on Biryani?

- a) 29.50% b) 26.56% c) 28.65% d) 35.79% e) 36.15%
- **3.** If the total amount spent on food items is Rs. 500000, then the amount spent on fish exceeds that on Biryani by: (approx) a) Rs. 21622 b) Rs. 19622 c) Rs. 15632 d) Rs. 20833 e) Rs. 22623
- 4. The spendings on others is how much percent less than that on Chicken? a) 18.89 b) 22.22 d) 19.44 c) 24.65
- e) 23.29 5. If the total amount spent on food be Rs. 720000. Then find the av
 - erage amount spent on Biryani, others and Chicken? (approx) b) 85333 a) 82362 c) 85362 d) 86334 e) 89456
- 6. M and N can do a work in 10 days and 15 days respectively. If M starts on the work and both work alternately day after day. In how many days will the work be completed? a) 10 b) 12 c) 8

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d) 9 e) None of these

- 7. The minimum temperature from Monday to Wednesday is 28°C and from Thursday to Sunday, it is 35°C. What is the average minimum temperature for the week? a) 32°C b) 31.5°C c) 30°C d) 32.5°C
- e) 30.5°C 8. A sum was put at simple interest
- at a certain rate for 3 years. Had it been put at 3% higher rate, it would have fetched Rs. 27 more. The sum is? b) Rs. 250 a) Rs. 400 c) Rs. 300 d) Rs. 500 e) None of these

9. A miz	xture of milk	and water	Ť	number	of boys to g	irls in all 3
contai	n 10% water.	Determine		buses?		
the an	nount of water t	to be added		a) 7 : 3	b) 7 : 4	
to the	mixture in orde	r to change		c) 8 : 3	d) 8 : 5	e) 9 : 7
the wa	ater content to	20% if ini-	12.	What pe	rcentage of	all girls are
tially,	the mixture is o	of 40 L?		in Bus C	?	_
a) 6L	b) 6.5L	c) 5.5L		a) 40%	b) 35%	
d) 5L	e) 4L			c) 50%	d) 45%	e) 55%
10. If the	shopkeeper	keeps the	13.	The sum	of the number	er of girls in
marke	d priceof an ar	ticle to Rs.		Buses A	and C is what	at percent of
2500	and says to	give two		the sum	of the numbe	er of boys in
succes	sive discounts of	of 15% and		the same	2 buses?	
20% a	nd still manage	es to earn a		a) 60%	b) 80%	
profit	of 10%, find the	e cost price		c) 75%	d) 48%	e) 64%
of the	article?		14.	In Bus H	B, 15% of th	e boys and
a) Rs.	1525.45 b) Rs.	1545.45		20% of t	the girls got	out in Kor-
c) Rs.	1595.65 d) Rs.	1625.45		mangala	and 8 boys	s and some
e) Rs.	1725.45			girls got	out in silk	board such
Direct	ions (Q.No. 11-	-15) :There		that the	ratio of boys	to girls on
are 3 sch	ool buses: Bus	A, Bus B		bus beca	ame 2 : 1.	How many
and Bus	C. The ratio of	f boys and		girls got	out in silk be	oard?
girls in Bi	ıs A is 3.2. 25%	of all girls		a) 1	b) 2	c) 3
are in Bi	is B and the	number of		d) 4	e) 5	1.00
girls in B	us C is 16 mo	ore than in	15.	What is t	the ratio of th	e difference
Bus B. Th	ie ratio of the	number of		between	the number	of boys and
boys in bu	ses B and C is	5:8. There		girls in	Bus A to the	e difference
are 220 st	udents in total a	ind the nu-		between	the total	number of
mber of st	tudents in Buse	es A and B		students $(2, 2, 3, 2, 3, 2, 3, 2, 3, 3, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$	In buses B a	
are equal.	inere are 100	siuaents in		a) $/:10$	D) 3 :	1U 11
$\begin{array}{c c} \textbf{BUSC.} \\ \textbf{11} \textbf{What} \end{array}$	in the overall a	totic of the		() 4 : /	a) o :	11
III. What	is the overall r	and of the	1	$c_{13}:13$		

1. **a**; Centre angle of total expense
=
$$360^{\circ}$$

Centre angle for the expense on
chole bhature = 46°
Percentage of money spent on
chole bhature
= $\frac{46}{360}$ 100 = 12.78%
2. **b**; Let the total expenditure on
all the different food items be
Rs. X
Amount spent on Biryani
= $\frac{64}{360}$ $x = \frac{8x}{45}$
Amount spent on prawn
= $\frac{81}{360}$ $x = \frac{9x}{40}$
Required percentage
= $\frac{\left(\frac{9x}{40}\right) - \left(\frac{8x}{45}\right)}{\frac{8x}{45}}$ 100 = $\frac{17}{64}$ 100
= 26.56%
3. **d**; Central angle for expense on
biryani = 64°
Centre angle for expense on

 $Fish = 79^{\circ}$ Total expense = Rs. 500000The amount spent on fish exceeds on Biryani by a central angle of $(79 - 64) = 15^{\circ}$ Exceeding amount $=\frac{79^{\circ}-64}{360}$ 500000 $= 20833.33 \approx 20833$ 4. b; Let the total spending on

foods be Rs. X Amount spent on chicken

 $=\frac{36}{360}$ $x=\frac{x}{10}$ Amount spent on others $=\frac{28}{360}$ $x=\frac{7x}{90}$... Required percentage $=\frac{\left(\frac{x}{10}\right) - \left(\frac{7x}{90}\right)}{x}$ 100 = 22.225. **b**; Given that, total amount spent on food = 720000Amount spent on Biryani $=\frac{64}{360}$ 720000 = 128000 Amount spent on others $=\frac{28}{360}$ 720000 = 56000 Amount spent on Chicken $=\frac{36}{360}$ 720000 = 72000 Required average amount $=\frac{(12800+56000+72000)}{(12800+56000+72000)}$ 3 = 85333.3≈85333 **6. b**; Work done in 1st two days $=\frac{1}{10} + \frac{1}{15} = \frac{3+2}{30} = \frac{1}{6}$ \therefore Number of days = 12 7. a; Minimum temperature from Monday to Wednesday is 28°C : Minimum temperature for 3 days is 28°C Minimum temperature from Thursday to Sunday is 35°C : Minimum temperature for 4 days is 35°C Now, Sum of minimum temperature for the week $= (3 \times 28) + (4 \times 35)$: Sum of minimum

temperatures = 224We know that, Average = Sum of all observations / Number of observations : Average minimum temperature = Sum of minimum temperatures/No. of days = Average minimum temperature = 224/7= Average minimum temperature = $32^{\circ}C$ 8. c; Formula for simple interest. $SI = \frac{P R T}{100}$ Where, P = Principal R = Rate of interestT = Time periodLet the sum be Rs. X and the original rate be R% Then SI = $\frac{x R 3}{100}$ Where rate is increased by 3% Then R = R + 3and SI = $\frac{X (R+3) - 3}{100}$ According to the question, the difference between the two equations is Rs. 27 $\therefore \frac{X (R+3) 3}{100} - \frac{X R 3}{100} = 27$ $\Rightarrow \frac{3XR + 9X - 3XR}{100} = 27$ $\Rightarrow \frac{9X}{100} = 27 \Rightarrow 9X = 2700$ $\Rightarrow X = \frac{2700}{9} \Rightarrow X = 300$ **9. d**; Amount of mixture = 40LAmount of water initially $\frac{10}{100}$ 40 = 4LLet 'x' be the amount of water

to be added $\Rightarrow \left[\frac{(4+x)}{40+x}\right] \quad 100 = 20$ \Rightarrow 40 +10x = 80 +2x $\Rightarrow 8x = 40$ $\Rightarrow x = \frac{40}{8} = 5$ \therefore 5L of water is to be added to the mixture **10. b**; Let the cost price be x Marked price of article = Rs. 2500 Price after first discount 85 2500 = Rs.2125100 Price paid by purchaser $\left(\frac{80}{100}\right)$ 2125 = Rs.1700Profit = 10% $\Rightarrow x + \left(\frac{10}{100}\right) \quad x = 1700$ \Rightarrow x = Rs.1545.45 \therefore Cost price = Rs.1545.45 11. b; Sum of the number of students in Buses A and B = 220 - 100 = 120Number of students in each of Bus A or Bus B $=\frac{120}{2}=60$ Number of boys in Bus A $= \left(\frac{3}{5}\right) * 60 = 36$ Number of girls in Bus A = 60 - 36 = 24Let the total number of girls be 'g' So, Number of girls in Bus $B = \frac{25g}{100} = \frac{3}{4}$ Number of girls in Bus

 $C = \frac{3}{4} + 16 \text{ So}, 24 + \frac{3}{4} + \frac{g}{4} + 16 = 9$ $\Rightarrow \frac{g}{2} = 40 \Rightarrow g = 80$ Total number of boys = 220 - 80 = 140Sum of the number of boys in Buses A and B = 140 - 36 = 104So, $24 + \frac{g}{4} + \frac{g}{4} + 16 = 9 \Rightarrow \frac{g}{2} = 40$ \Rightarrow g = 80

	Boys	Girls	Total
Bus A	36	24	60
Bus B	40	20	60
Bus C	64	36	100
Total	140	80	220

Total no. of boys = 140Total no. of girls = 80Required ration =140:80=7:412. d; Required percentage $=\frac{36}{80}$ 100 = 45% **13. a**; Number of girls in A and C= 60 No. of boys in A and C = 100Required percentage = 60%14. c; Number of boys in Bus B after Koramangala $=\left(\frac{85}{100}\right) 40 = 34$ Number of girls in Bus B after Koramangla $=\left(\frac{80}{100}\right)$ 20 = 16

Number of boys after Silk board in Bus B = 34 - 8 = 26Number of girls after Silk board in Bus B = 26/2 = 13Number of girls who got out in Silk board = 16 - 13 = 315. b; Required ratio = (36-24) : (100-60) = 3 : 10

