## Data Interpretation Questions for Upcoming Exams

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# 24 Sets of Data Interpretation 120 Questions with explanation

Directions (1-5): Study the following table carefully. Some values are missing. Complete that based on given information in each question to answer the question.

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The table shows the number of employees in an organization in 5 different cities with total employees being 2130 in the organization. Table also shows the percentage of employees working in 4 departments – HR, Finance, Software and Accounts with each employee in only 1 department.

Class	Employees	HR	Finance	Software	Accounts
Delhi	450		18%		28%
Mumbai	380	15%		30%	
Bengaluru		18%	20%		32%
Hyderabad			25%	18%	35%
Gurgaon	350	20%	22%		20%

1. What is the total number of employees in Mumbai and Gurgaon who work in Software department?

A) 292	B) 226	C) 285	D) 247	E) None of these
,,	5,220	0,200	2,21	

#### D) 247

#### **Explanation:**

In Gurgaon, Software % = 100 – (20+22+20) = 38% Required Ans = (30/100)\*380 + (38/100)\*350

2. If in Delhi, employees who work in Accounts department are 40% more than employees who work in HR department, then what is the number of employees who work in Software department in Delhi?

A) 133 B) 153 C) 176 D) 147 E) None of these

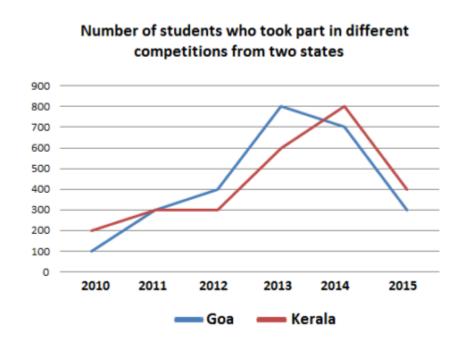
# B) 153 Explanation: Let % of employees who work in HR in Delhi is x%. So [28/100 \* 450 - x/100 \* 450]/[ x/100 \* 450] \* 100 = 40 Which is [(28-x)/x] \* 100 = 40 Solve, x = 20 So % of employees who work in Software is 100 - (20+18+28) = 34% So required ans = 34/100 \* 450

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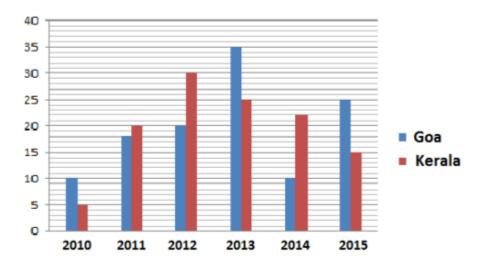
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Hyderal	oad, then wh	at is the dif	ference betwo	een number o	ber of employees in of employees who work in ance department in these 2
A) 122	B) 104	C) 97	D) 135	E) 116	
B) 1	04				
-	lanation:				
		0	2	-	50+380+350) = 950
	-		s is x, then in E	8engaluru – 90	/100 * x
	(+90x/100 = (e x = 500 so		d = 500 and in	n Rengaluru =	90/100 * 500 = 450
		-		-	100 * 450 + 25/100 * 500]
	= 12/100 * 45			<b>]</b> [ <b>-</b> ]	
. If a sam	e criterion a	s taken in q	uestion 3 is ta	iken, in which	n city the total employees who
			epartments is		-
A) Delhi	B) Mumba	i C) Bengal	uru D) ł	Hyderabad	E) Gurgaon
Ехр	<b>lyderabad</b> lanation: ni – (18+28)/1	00 * 450 = 20	)7		
	mbai– 55/100				
Ber	galuru – (20+	32)/100 * 45	0 = 234		
2	erabad – (25-	-			
Gur	gaon – (22+20	0)/100 * 350	= 147		
					department is 19 more than nt in Gurgaon, then what is the
the nun	-	-	tin Finance de D) 62	-	-
<b>the nun number</b> A) 57	of employed B) 60	es who work	in Finance de	epartment in	-
the nun number A) 57 <b>A) 5</b>	of employed B) 60	es who work	in Finance de	epartment in	-
the nun number A) 57 A) 5 Exp % o	of employed B) 60 7 lanation: f employees v	es who work C) 49 who work in S	<b>Software in Gu</b>	E) 55 E) 55	<b>Mumbai?</b> (20+22+20) = 38%
the nun number A) 57 A) 5 Exp % o Nur	<b>of employed</b> B) 60 <b>7</b> <b>Ianation:</b> f employees with the second s	es who work C) 49 who work in 9 oyees who w	<b>Software in Gu</b> ork in Software	E) 55 E) 55 rgaon = 100 – e in Gurgaon =	<b>Mumbai?</b> (20+22+20) = 38% : 38/100 * 350 = 133
the nun number A) 57 A) 5 Exp % o Nur So r	<b>of employed</b> B) 60 <b>7</b> <b>Ianation:</b> f employees with the second s	es who work C) 49 who work in 9 oyees who w	Software in Gu ork in Software in Gu	epartment in E) 55 Irgaon = 100 – e in Gurgaon = unts in Mumba	<b>Mumbai?</b> (20+22+20) = 38%

Directions (6-10): Study the following charts carefully and answer the questions that follow:

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Percentage of students who won medals from different states



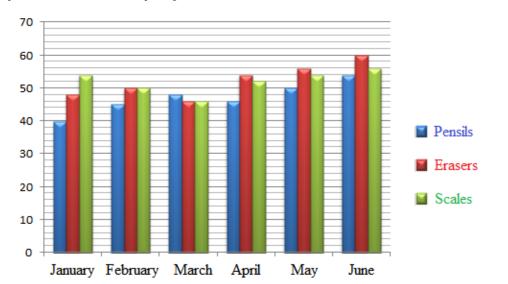
6. **How many students from Goa won medals in the years 2010, 2012 and 2015 together?** A) 120 B) 125 C) 165 D) 132 E) 155



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In 20 In 20 2015	010: 10/100 * 012: 20/100 * 5: 25/100 * 30 80+75	100 = 10 400 = 80				
	of students nts from Kei B) 143		•	l <mark>s is approxim</mark> a E) 116	tely what percent of numb	ber
Som Num Num Simil From From	<b>anation:</b> e info take fr ıber of stude	nts from Goa nts from Goa rom Kerala a 6	a who got med	lals in 2011 = 18 lals in 2013 = 35		
2010 and					not won medals in the yea edals in the year 2014 and 2	
who 80/1 who	<b>anation:</b> do not won 00 * 300 = 43	30 medals in the	-	_	r from Kerala = 95/100 * 200 r from Goa = 90/100 * 700 +	+
	2013 from		mber of stude years from H C) 15 : 22	(erala?	<b>t won medals in the years</b> : 23 E) 14 : 11	
From	<b>anation:</b> n Goa in 2012			+ 65/100 * 800 : 00 + 75/100 * 60		

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10. What is the total number of students who wo do not won medals from Kerala in the year 20	-
A) 440 B) 470 C) 415 D) 490	E) 480
D) 490	
Explanation:	
who won medals from Goa in the year 2013	= 280
who won medals from Kerala in the year 20	12 = 210
280+210	

Directions (11-15): The following bar graph shows the production (in thousands) of different products in a company in 6 different months.



# 11. In how many months in the percentage rise/fall in production of Erasers from the previous month less that 10%?

A) 1 B) 3 C) 4 D) 2 E) None of these **C) 4 Explanation:** For Feb = (50-48)/48 8 100 = 4.17% Similarly find for all months For march = -8%, april = 17.40%, may = 3.7% and june = 7.14% So 4 months

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total production of all th		d is approximately what percentage of the ring the given period? E) None of these
<b>D) 31%</b> <b>Explanation:</b> Production of pencils Total production of a So % = 283/909 * 100	II = 909	
and the average product	-	production of scales in April, May and June January to June? E) 1.16
B) 1.67 Explanation: Average Scales in Apr Average erasers in all Difference = 1.67	-	
8% and that of scales ge production of all the 3 p	<b>t decreased by 5% ov</b> <b>roducts in July.</b> 3) 178.48 thousand	ased by 12%, that of erasers get increased by ver the previous month, find the total C) 132.56 thousand
<b>B) 178.48 thousand</b> <b>Explanation:</b> Pencils in July = 112/1 Erasers in July = 108/ Scales in July = 95/100 So total = 178.48	100 * 60 = 64.80	
difference between the A) 1174 thousand E		of one scale is Rs 11, then what is the and scales during the given months? C) 1624 thousand
<b>E) 1168 thousand</b> <b>Explanation:</b> Total revenue of pend	cils = 283*8 = Rs2264 t es = 312*11 = Rs3432 t	
7	0 0 0 0 0 0	

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Directions (16- 20): Study the following carefully and answer the questions that follow: A school has a total of 3000 students in 5 different classes as 1, 2, 3, 4, and 5. The ratio of boys to girls in the school is 4 : 2 respectively. 14% of the boys are in class 1. 20% of the girls are in class 5. The ratio of boys to girls in class 1 is 4 : 6 respectively. One-eighth of the girls are in class 3. 44% of the boys are in class 4. Number of girls in class 4 is 20% of the boys in the same class. The reaming girls are in class 2. The total number of students in class 3 is 345. 24% of the boys are in class 2 and the remaining boys are in class 5.

#### 16. The total number of students in class 3 is what percent of the total number of students in the school?

A) 12.0%	B) 12.5%	C) 11.5%	D) 13.2%	E) 15.5%
<b>C) 11.5%</b> <b>Explanat</b> Class 1 – Class 2 – Class 3 – Class 4 – Class 5 –	-			
17. How many b	•			-
A) 98 B)	143 C) 130	D) 14	0 E) 116	5
Class 2 – Class 3 – Class 4 –	t <b>ion:</b> B(280) G(420) B(480) G(79) B(220) G(125) B(880) G(176) B(140) G(200)			
	<b>of boys in class</b> 7% C) 3%	-		number of boys in the school?
Class 2 – Class 3 – Class 4 – Class 5 –	tion: B(280) G(420) B(480) G(79) B(220) G(125) B(880) G(176) B(140) G(200) 140/2000 * 100			

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19. Find the	total numb	er of girls I	n class 3 and c	lass 4?		
A) 291	B) 315	C) 303	D) 301	E) 296		
D) 3	01					
	anation:					
Class	s 1 – B(280) G	6(420)				
Class	s 2 – B(480) G	G(79)				
Class	s 3 – B(220) G	5(125)				
Class	s 4 – B(880) G	5(176)				
Clas	s 5 – B(140) G	5(200)				
20 <b>The num</b>	hor of girls	in class 1 is	what parcon	t of the total	number of girls in the	school2
20. <b>Hie Hui</b> A) 44%	•	C) 41%	D) 42%	E) 48%	indifiber of girls in the	SCHOOI:
A) 44 %	D) 47 70	C) 41 %	D) 42 70	L) 40 %		
D) 4	2%					
Expl	anation:					
Clas	s 1 – B(280) G	G(420) C	lass 2 – B(480)	G(79)		
Class	s 3 – B(220) G	G(125) C	lass 4 – B(880)	G(176)		
Class	s 5 – B(140) G	5(200)				

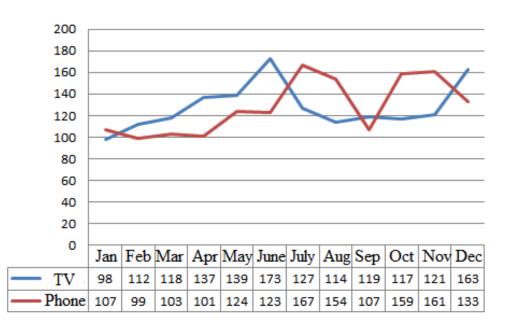
Directions (21 – 25): Study the following line chart carefully and answer the questions that follow:

> The line chart shows the sales of TVs and Mobiles (in thousands) of company ABC

**Data Interpretation Questions** 

Req % = 420/1000 \* 100

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Data Interpretation Question for upcoming exams PDF	• • • • • • • • • • • • • • • • • • •		www.aspirantszone.com
	es of Phones in first s	ix months t	to the ratio of sales of TV during
<b>the same period?</b> A) 260 : 233 B) 205	: 226 C) 234 : 2	243 [	D) 219 : 259 E) 213 : 256
Option D Solution:			
	rst six months = 65700	00	
Sales of TV in first six	c months = 777000		
22 In which months is the	difference between <sup>.</sup>	the sales of	the two products the same?
A) Jan, July and Dec			C) Feb, June and Aug
D) July, Sep and Nov	E) None of thes	e	
Option B			
Solution:			
Differences:			
Jan = 9, Feb = 13, Ma Oct = 42, Nov = 40, D		ay = 15, June	e = 50, July = 40, Aug = 40, Sep = 12,
UCI – 42, NOV – 40, D	ec – 50		
• • •		than the p	eople who buy TV, then total sales
of which product is min A) TV B) Phones	C) Same for bot	th products	
D) Cannot be Determined	-	•	
Option B			
Solution:			
People who like TV =	x, then who like Phor	nes = 120/10	$0 \times x = 1.2x$
	ll months = 1538 thou		
	s in all months = 1538	thousand	
Sales of TV/person = Sales of Phones/pers			
So Sales of Phones/pers			
		d Nov is the	e % rise in sales of TV the maximum
compared to preceding A) Mar B) May	<b>montn?</b> C) July D) Sep	E) Nov	
, y war b) way			
10			
		• • •	

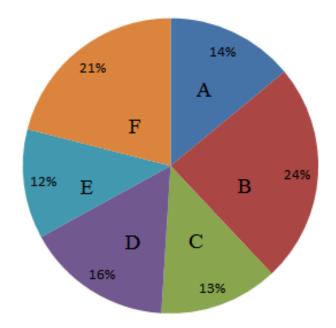
than the sales of same in the months May and June? A) 11% B) 23% C) 16% D) 19% E) 26% Option B Solution: [(139+173)-(127+114)]/ (139+173) × 100 = (312 -241)/312 × 100 = 23% Directions (26- 30): Study the following carefully and answer the questions that follow: Percentage of employees in 7 departments 7 departments 7 departments 7 departments $10^{6}$ $6$ $10^{5}$ $10^{$	Data Interpretation Questions for upcoming exams PDF	<u></u> w	<u>ww.aspirantszone.cc</u>
A) 11% B) 23% C) 16% D) 19% E) 26% Option B Solution: $[(139+173)-(127+114)]/(139+173) \times 100 = (312-241)/312 \times 100 = 23\%$ Directions (26-30): Study the following carefully and answer the questions that follow: Dercentage of employees in 7 departments 7 departments $10^{00}$ $10^{5}$	<b>Solution:</b> Mar = 6/112 × 100 = 5.35%	sed, Sep = 4.38%, Nov	v = 3.42%
Solution: $[(139+173)\cdot(127+114)]/(139+173) \times 100 = (312 \cdot 241)/312 \times 100 = 23\%$ Directions (26-30): Study the following carefully and answer the questions that follow: Percentage of employees in 7 departments $10^{0}^{0}^{0}^{0}^{0}^{0}^{0}^{0}^{0}^{0$	than the sales of same in the months	s May and June?	what approximately percent les
7 departments $105$ <	Solution:	= 100 = (312 -241)/312	× 100 = 23%
7 departments $105$ <	Directions (26- 30): Study the following	carefully and answe	er the questions that follow:
$\frac{1}{100} \frac{1}{100} \frac{1}$			
Image: constraint of the number of male employees in department A is 12160, what is the number of employees in department D?         A) 29800       B) 28000       C) 32700       D) 34000       E) 32001         Option E solution:       38/100 × x = 12160	7 departments		
$\frac{103}{15} + \frac{103}{9} + \frac{163}{9} + \frac{163}{9} + \frac{153}{9} + 1$			
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array} \end{array} $ $ \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array} \end{array} $ $ \begin{array}{c} \end{array} \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \begin{array}{c} \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $	10% 16%	_	
$\frac{116}{100} + \frac{1}{100} + $	G		
$\frac{F}{G} = \frac{46}{58}$ $\frac{F}{G} = \frac{1}{2}$ $\frac{F}{G} = $			
26. If the number of male employees in department A is 12160, what is the number of employees in department D? A) 29800 B) 28000 C) 32700 D) 34000 E) 32000 Option E Solution: $38/100 \times x = 12160$		F	46
26. If the number of male employees in department A is 12160, what is the number of employees in department D? A) 29800 B) 28000 C) 32700 D) 34000 E) 32000 Option E Solution: 38/100 × x = 12160	В	G	58
<b>Option E</b> <b>Solution:</b> 38/100 × x = 12160	26. If the number of male employees in c	department A is 121	60, what is the number of
<b>Solution:</b> 38/100 × x = 12160	A) 29800 B) 28000 C) 32700 D	) 34000 E) 32000	
38/100 × x = 12160			
	•		
	Solution:		

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Since % of emplo	• •		) is same	
So employees in	department D	= 32000		
27. In the number of en	nployees in de	epartment D	s 32000, then find the nur	nber of male
employees in depar	tment B.			
A) 16800 B) 14300	C) 15600	D) 14000	E) 11600	
Option C				
Solution:				
16/100 × x = 320	00			
So total employe	1 3			
So male employ	ees in B = 52/1	00 × 15/100 ×	200000	
28. Find the ratio of ma	le employees	in departme	it F to that in department	: <b>C.</b>
A) 21 : 11 B) 23 : 11	• •	D) 27 : 16	E) 19 : 9	
Option B				
Solution:				
46 × 21 : 42 × 11				
		in departme	nt A is 12160, then find the	e number of
employees in depar			5) 22000	
A) 29100 B) 20100	C) 23400	D) 21000	E) 22000	
Option E				
Solution:				
38/100 × 16/100				
So total employe				
So employees in	department E	= 11/100 × 20	),000 = 22,000	
•	• •		0, 000. If next year, the nu	
			10% each, then find the	number of male
employees in depar		-	5) 4 42 62	
A) 11560 B) 12760	C) 18340	D) 12540	E) 14360	
Option B				
Solution:				
15/100 × x = 30,0				
So total employe	es in company	in present ye	ar, x = 200,000	

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So total employees in G in present year =  $10/100 \times 200,000 = 20,000$ So total employees in G in next year =  $110/100 \times 20,000 = 22,000$ So male employees =  $58/100 \times 22000 = 12760$ 

Directions (31 – 35): A survey is taken in 6 cities of a state. The pie chart shows the distribution of people in each city with total 8,40,000 people.



31. Number of people in city B is how much percent greater than the number of people in city D?

A) 8%	B) 50%	C) 15%	D) 35%	E) 42%
7,070	D) 50 /0	C) 1370	0,0070	L) 72 /0

## Option B

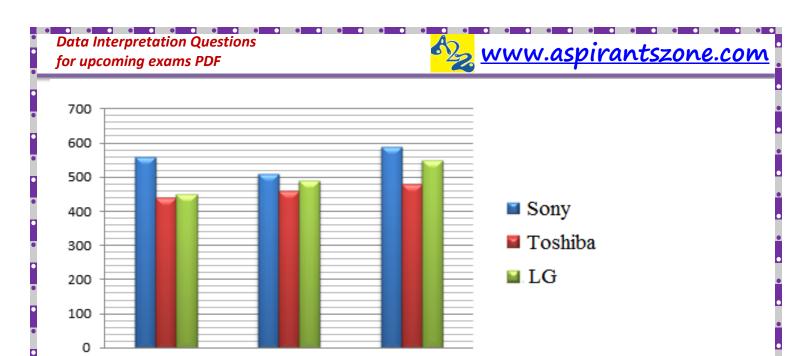
**Solution:** A = 117600, B = 201600, C = 109200, D= 134400, E = 100800, F = 176400 So here – [(201600-134400)/134400] × 100 = 50%

#### 32. What is the total number of people in cities C, E and F?

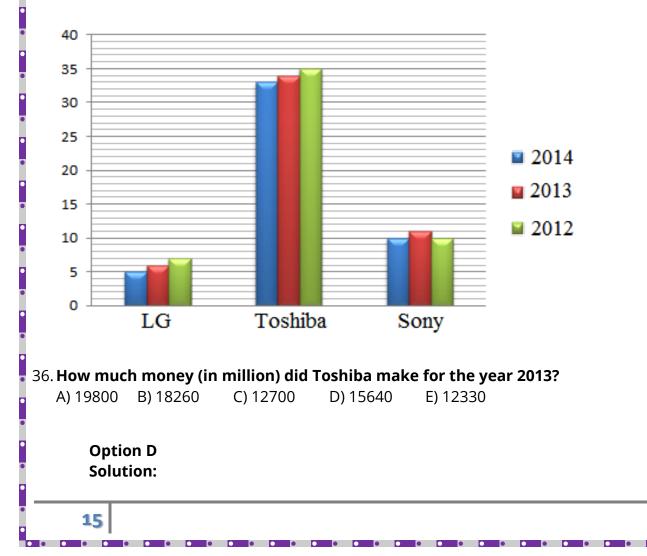
A) 3,86,400 B) 3,45,670 C) 3,24,500 D) 3,67,400 E) 3,66,400

Option A Solution:

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A = 117600, B = 201600, C = 109200, D= 134400, E = 1	100800, F = 176400
<ul> <li>33. What is the ratio between number of people in cities together?</li> <li>A) 16: 17</li> <li>B) 15: 22</li> <li>C) 17: 20</li> <li>D) 17: 18</li> <li>E) 18</li> </ul>	-
A) 10.17 B) 13.22 C) 17.20 D) 17.18 E) 18	. 25
Option D Solution: A = 117600, B = 201600, C = 109200, D = 134400, E = 176400 + 109200 : 201600 + 100800 2856 : 3024 17 : 18	100800, F = 176400
<ul> <li>34. If there are 65% males in city B, 49% females in city D females in these cities form what percent of total num</li> <li>A) 52.33%</li> <li>B) 45.37%</li> <li>C) 32.56%</li> <li>D) 44.08%</li> </ul>	-
Option D Solution: A = 117600, B = 201600, C = 109200, D = 134400, E = Females in B, D, and A = 35/100 × 201600 + 51/100 × So % = [192528/(201600+134400+100800)] × 100 = 4	134400 + 53/100 × 100800 = 192528
35. Number of people in city A is what percent of the nur         A) 111.91%       B) 123.25%       C) 107.69%       D) 119.31%	
<b>Option C</b> <b>Solution:</b> 14/13 × 100	
<ul> <li>Directions (36- 40): Study the following carefully and an</li> <li>The bar graph shows the number of sales of Televisions (in companies in 3 consecutive years.</li> </ul>	-



The line chart shows the average price per television (in Thousands Rupees) for these three consecutive years.



Data Interpretation Questions for upcoming exams PDF
In 2013, Toshiba sold = 460 thousand Average price in 2013 is Rs 34 So total money is (34 × 460) million
37. What is the average number of Televisions sold per year over the given three years? A) 1680 B) 1430 C) 1560 D) 1400 E) 1510
<b>Option E</b> <b>Solution:</b> Sold in 2012 = 560+440+450 = 1450 Sold in 2013 = 510+460+490 = 1460 Sold in 2014 = 590+480+550 = 1620 Total number sold in 3 years = 1450+1460+1620 = 4530 So average = 4530/3 = 1510
38. What percent of total money generated by selling Televisions from Toshiba in 2014?A) 61%B) 64%C) 52%D) 78%E) 56%
<ul> <li>Option B Solution: Total money generated in 2014 by selling all = 590*10 + 480*33 + 550*5 = 24490 million Total money generated in 2014 by selling Toshiba only = 480*33 = 15840 million So % = [15840/24490] × 100 = 64%</li> <li>39. What is the percent change in the average price of television in the year 2013 compared to the year 2012? A) 1.9% increased B) 2.9% decreased C) 1.9% decreased D) 2% increased E) 3.0% decreased</li> </ul>
Option C Solution: Avg price in 2012 = (10+35+7)/3 = 17.33 Avg price in 2013 = (11+34+6)/3 = 17 So % change = [(17.33-17)/17.33] × 100 = 1.9% decreased 40. If in 2015, Sony wants to decrease the average price of its each Television by 10% then
how many Televisions they have to sell (in thousands) so that the amount of money generated by selling Televisions remains unchanged compared to the previous year? A) 615.60 B) 655.50 C) 683.40 D) 625.40 E) 643.60
16



#### Option B Solution:

In 2014, avg price of Sony is 10,000 So in 2015, after decreasing by 10%, price per TV becomes = 90/100 \* 10 = Rs 9 Now, income generated by selling Sony in 2014 = 590\*10 = 5900 million So in years 2015, no of Sony TV sold is 5900/9 = 655.5 thousand

#### Directions (41-45): Study the following table and answer the following:

Products		Percentage growth in the sales over the previous years				
	III 2012	2013	2014	2015		
Α	2	5	10	10		
В	3	8	10	20		
С	3.6	10	10	12		
D	3	9	10	12		

#### 41. Find the difference between the sales of products A and B in the year 2015.

A) 154320

B) 173580

C) 143420

D) 185280

E) 165890

#### Option B

#### Explanation:

Sales of A in 2015 = 2 lacs × 105/100 × 110/100 × 110/100 = 254100 Sales of B in 2015 = 3 lacs × 108/100 × 110/100 × 120/100 = 427680 So difference = 427680 – 254100 = 173580

#### 42. Find the ratio of sales of product C in 2014 to the sales of product D in 2015.

- A) 875 : 654
- B) 825 : 763
- C) 962 : 744
- D) 796 : 733
- E) None of these



#### **Option B**

#### **Explanation:**

Sales of C In 2014 = 3.6 lacs × 110/100 × 110/100 Sales of D In 2015 = 3 lacs × 109/100 × 110/100 × 112/100 So ratio = 3.6 lacs × 110/100 × 110/100 : 3 lacs × 109/100 × 110/100 × 112/100

## 43. What is the percentage increase in sales of all the four products in 2014 as compared to 2012?

- A) 14.22
- B) 15.67
- C) 20.97
- D) 18.35
- E) 19.19%

#### Option E

#### **Explanation:**

Sales of A in 2014 = 2 lacs  $\times$  105/100  $\times$  110/100 = 231000 Sales of B in 2014 = 3 lacs  $\times$  108/100  $\times$  110/100 = 356400 Sales of C in 2014 = 3.6 lacs  $\times$  110/100  $\times$  110/100 = 435600 Sales of D in 2014 = 3 lacs  $\times$  109/100  $\times$  110/100 = 359700 So total sales in 2014 = 1382700 Total sales in 2012 = 1160000 So % increase = (1382700 - 1160000)/1160000 \* 100 = 19.19%

# 44. Of all the products, which product showed the highest percentage increase in total sales at the of 2015 in four years?

- A) A
- B) B
- C) C
- D) D

E) None of these

#### Option B

#### **Explanation:**

Sales of A in 2015 = 2 lacs × 105/100 × 110/100 × 110/100 = 254100 Sales of B in 2015 = 3 lacs × 108/100 × 110/100 × 120/100 = 427680 Sales of C in 2015 = 3.6 lacs × 110/100 × 110/100 × 112/100 = 487872 Sales of D in 2015 = 3 lacs × 109/100 × 110/100 × 112/100 = 402864 So % increase in sales of product A = (254100-200000)/200000 \* 100 = 27.05%

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% increase in sales of product B = (427680-300000)/300000 \* 100 = 42.56% % increase in sales of product C = (487872-360000)/360000 \* 100 = 35.52% % increase in sales of product D = (402864-300000)/300000 \* 100 = 34.28% So maximum for B

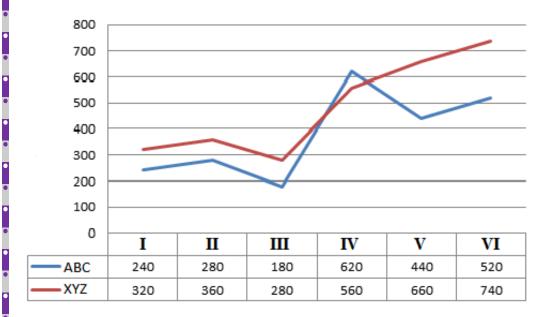
- 45. If the ratio of defective to non-defective A products is 2 : 3 in 2012 while that of products C is 4 : 5 in same year, then what is the ratio of defective A products to non-defective B products in 2012?
  - A) 1 : 4
  - B) 4 : 7
  - C) 3 : 7
  - D) 2 : 5
  - E) 2 : 7

#### Option D

#### **Explanation:**

Number of defective A products in 2012 = 2/5 \* 2,00,000 = 80,000 Number of non-defective C products in 2012 = 5/9 \* 3,60,000 = 2,00,000 So required ratio = 80,000 : 2,00,000 = 2 : 5

**Directions (46- 50): Study the following chart carefully and answer the questions that follow:** The chart shows the number of students in six 6 classes of 2 different schools ABC and XYZ.



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 46. What is the difference between the students of class II and IV in school ABC and the students of class I and V in school XYZ?
 A) 90

 B) 120
 B) 120

C) 80

D) 50

E) 110

**Option C Explanation:** II and IV in ABC = 280+620 = 900

I and V in XYZ = 320+660 = 980

47. What is the ratio of number of students in classes I and IV in school ABC to number of students in classes II and VI in school XYZ?

A) 23 : 56

B) 45 : 59

C) 43 : 55

D) 25 : 41

E) None of these

## Option C

**Explanation:** 24+62 : 36+74 86 : 110 43: 55

48. Students in school ABC are approximately what percent lesser than students in school XYZ?

- A) 15% B) 27%
- C) 33%

D) 12%

E) 22%

#### Option E Explanation:

In ABC = 2280 In XYZ = 2920

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Required % = (2920-2280)/2920 * 100	
	of classes IV and I respectively gets shifted to same ne average number of students in classes I and IV in
<b>Option C</b> <b>Explanation:</b> From D = 5/100 * 620 = 31 From A = 10/100 * 240 = 24 So now in A and D in XYZ = 320+24 + 56 So average = 935/2 = 467.5	50+31 = 935
<ul> <li>50. Students in class V in school ABC is what pertogether in school XYZ?</li> <li>A) 64.78%</li> <li>B) 68.75%</li> <li>C) 75.75%</li> <li>D) 99.35%</li> <li>E) 102.55%</li> </ul>	rcent of the number of students in classes II and III
<b>Option B</b> <b>Explanation:</b> 440/(360+280) * 100	
during Six years.	ô (Missing DI) and females (F) in Five Companies A, B, C, D and E nswer each question, refer to data in table and



Company/	A		B		С		D		E	
Year	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
2011				202		102	142		12	
2012			112		105			136		20
2013		182	126	164		150		140	38	
2014	122	106		118	104		100			85
2015			124			105		100	100	
2016	138		142	128	186		124			125

51. If the average number of female workers in all the given companies in 2013 is 156 and the difference between average number of female workers in all the given companies in 2013 and average number of male workers in all the given companies in 2016 is ten, then what is the difference between the male workers in Company D in 2016 and female workers in company E in 2013?

A) 8

B) 6

C) 5

D) 4

E) 2

#### Option D Solution:

Average number of female workers in all the given companies in 2013 = 156Total female workers = 156 \* 5 = 780So the female workers in Company E in 2013 = 780 - 644 = 136Average number of male workers in all the given companies in 2016 = 156-10 = 146So total male workers = 146 \* 5 = 730The male workers in Company E in 2016 = 730 - 590 = 140Difference = 140 - 136 = 4

52. If the total female workers in Company B is 830 and the average female workers in company C is 100 for the years 2012, 2013, 2014 and 2015, then the total number of female workers in Company B in 2012, 2013, 2014 and 2015 together is what percent more than the total number of female workers in Company C in the same years together?

- A) 40%
- B) 16%
- C) 25%
- D) 18%
- E) 20%

#### Option C Solution:

Average female workers in company C (2012, 2013, 2014 and 2015) = 100 Total female workers in company C (2012, 2013, 2014 and 2015) = 100\*4 = 400 Total female workers in Company B = 830 Total female workers in company B (2012, 2013, 2014 and 2015) = 830 – (202+128) = 500 Required % = (500 – 400)/400 \* 100 = 25%

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- 53. If the average of total number of workers (male and female) in companies A, B and C together in 2013 is 220 and in the year 2014, the sum of male workers of company B and female workers of company C is 100, then what is the ratio of the total number of workers (male and female) in companies A, B and C together in 2013 to the total number of workers (male and female) in the same companies together in 2014?
  - A) 4:3
  - B) 6:5
  - C) 2:5
  - D) 8:5
  - E) 2:3

## **Option B**

#### Solution:

Total number of workers (male and female) in companies A, B and C together in 2013 = 660 Total number of workers (male and female) in companies A, B and C together in 2014 = 100 + 122 + 106 + 104 +118 = 550 Ratio = 660 : 550 = 6:5

- 54. Total number of workers (male and female) in company D in the year 2011 is 280 and then decreased by 20 for every year. Total number of workers (male and female) in company E in the year 2011 is 20 and then doubled for every year. The total number of female workers in company E during all the given years together is what percent (approximately) of the total number of male workers in company D during all the given years together?
  - A) 40%
  - B) 56%
  - C) 65%
  - D) 68%
  - E) 70%

#### Option E Solution:

For the year 2012, males = 260 -136 =124 For the year 2013, males = 240 – 140 =100

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company E during al number of male wor A) 14% B) 16% C) 25% D) 29% E) 18% Option D Solution: For the year 201 For the year 201 Total number of Required % = (7 Directions (56 - 60): The table shows the marks are out of total Some values are miss respective question.	12 = 260 13 = 220 15 = 200 f male we $11 = 20 -13 = 80 -13 = 80 -15 = 320f female210 - 500numberal 150 massing in theoremsing in theoremsing in theorem$	-136 =124 - 120 =10 - 100 =10 orkers = 12 =8 38 =42 - 100 = 2 workers /710)* 10 of marks arks in e	00 00 142 + 124 + 1 20 = 8 + 20 + 42 00 = 29.57% s secured by ach subject.	+ 85 + 220 + 145 <b>r each student i</b>	5 = 500 <b>n different s</b>	-
company E during al number of male wor A) 14% B) 16% C) 25% D) 29% E) 18% Option D Solution: For the year 201 For the year 201 Total number of Required % = (7 Directions (56 - 60): The table shows the marks are out of total Some values are missing respective question.	12 = 260 13 = 220 15 = 200 f male we $11 = 20 -13 = 80 -13 = 80 -15 = 320f female210 - 500numberal 150 massing in thesing in the$	-136 =124 - 120 =10 - 100 =10 orkers = 12 =8 38 =42 - 100 = 2 workers /710)* 10 of marks arks in ea he table.	00 00 142 + 124 + 1 20 = 8 + 20 + 42 00 = 29.57% s secured by ach subject. To answer o	+ 85 + 220 + 145 each student i each question, i	5 = 500 n different s refer to data Biology	in table and Statistics
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company E during al number of male wor A) 14% B) 16% C) 25% D) 29% E) 18% Option D Solution: For the year 201 For the year 201 Total number of Required % = (7 Directions (56 - 60): The table shows the marks are out of total	12 = 260 13 = 220 15 = 200 f male wo 11 = 20 - 13 = 80 - 15 = 320 f female 10 - 500 number al <b>150 m</b> a	-136 =124 - 120 =10 - 100 =10 orkers = 12 =8 38 =42 - 100 = 2 workers /710)* 10 of marks arks in e	00 00 142 + 124 + 1 20 = 8 + 20 + 42 00 = 29.57% s secured by ach subject.	+ 85 + 220 + 145 <b>r each student i</b>	5 = 500 <b>n different s</b>	-
company E during al number of male wor A) 14% B) 16% C) 25% D) 29% E) 18% <b>Option D</b>						
55. Total number of wor decreased by 20 for	every ye then dou Il the give	ar. Total i ubled for e en years t	number of w every year. T cogether is w	orkers (male and he total number hat percent (app	d female) in co of female wo proximately) le	ompany E in the rkers in
For the year 201 Total number of For the year 201 For the year 201 For the year 201 Total number of Required % = (5	f male wo 11, femal 13, femal 15, femal f female 600/710)*	orkers = ^ les = 20 – les = 80 – les = 320 workers = * 100 = 70	142 + 124 + 1 12 =8 38 =42 - 100 = 220 = 8 + 20 + 42 0.42%	+ 85 + 220 + 125	5 = 500	

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Suresh	80		64	100		120
Ramesh		150	120			130
Geeta	88			112		142
Sita		132	138		132	

56. If the average marks of Pavi and Suresh is 105 and the marks scored by Pavi & Suresh in Maths is 60 less than that of marks scored by Ramesh & Suresh in Biology. Find the respective ratio of the total marks obtained by Pavi and Suresh in Maths and that scored by Suresh and Ramesh in Biology?

A) 1 : 3

B) 3:5

C) 7 : 5

D) 7 : 9

E) None of these

#### Option D

#### Solution:

Average marks of Pavi and Suresh = 105 Marks of Pavi and Suresh = 210 Marks of Suresh and Ramesh = 270 Ratio = 210 : 270 = 7 : 9

- 57. Total marks obtained by six students in Maths is 700 and average marks of Pavi and Suresh in Maths is 105. If 40% of mark is required to pass each subject then what is the difference between the minimum pass marks and marks scored by Geeta?
  - A) 3 B) 5 C) 8 D) 7 E) None of these

Solution:

Option C Maths marks of Geeta = 700 – (140 + 150 + 132 + 210) = 68 Minimum pass marks = 40/100 \* 150 = 60 Difference = 8

58. If the average marks of Ravi in English, Physics and Biology is 120 and the sum of the marks obtained by Ravi in Maths, Chemistry and Statistics is same as the marks obtained by Ramesh in English, Physics and Chemistry then the total marks scored by Ravi in all subjects together is what % of total marks obtained by Ramesh in all the subjects together?



A) 65% B) 95%
C) 85%
D) 75%
E) None of these
Option B
Solution:
Average marks of Ravi in English, Physics and Biology = 120
Total marks of Ravi in English, Physics and Biology = 360
Marks obtained by Ravi in Maths, Chemistry and Statistics = 400
Total marks scored by Ravi in all subjects together = 360 + 400 = 760
Total marks scored by Ramesh in all subjects together = 400 + 400 = 800
Required % = 760/800 * 100 = 95%
59. If Marks scored by Sita in Chemstry and Statistics is 30 less than the marks scored by herself in
Maths then find the overall % of marks obtained by Sita in Maths, Chemistry and Statistics?
A) 63%
B) 55%
C) 84%
D) 62%
E) 52%

## Option E

#### Solution:

Marks obtained by Sita in Maths, Chemistry and Statistics = 102 + 132 = 234 % of marks obtained by Sita in Maths, Chemistry and Statistics = 234/450 \* 100 = 52%

- 60. Pavi's marks in Statistics equals to 50% of the marks scored by herself in Biology while Sita's Marks in Statistics is 10 less than the marks scored by herself in Physics. Then what is the average marks scored by students in Statistics?
  - A) 112.3
  - B) 121.7
  - C) 184.5
  - D) 162.4
  - E) 152.4

## Option B

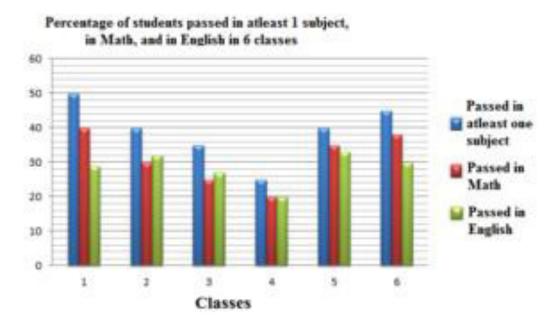
Solution:

Pavi's marks in Statistics = 50% of 140 = 70

Sita's Marks in Statistics = 138 – 10 = 128 Average = ( 140 + 70 + 120 + 130 + 142 + 128)/6

#### Directions (61 – 65): Study the following bar graph and table to answer the following:

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Class	1	2	3	4	5	6
No of	1200	1250	1400	1500	1100	1300
Students						

- 61. What is the number of students who passed in only Math in the 6 classes together? A) 811

  - B) 623
  - C) 598 D) 824
  - E) 792
    - 1792

## Option A

#### Solution:

For class 1: Students passed in at least 1 subject =  $50/100 \times 1200 = 600$ Students passed in Math =  $40/100 \times 1200 = 480$ Students passed in English =  $29/100 \times 1200 = 348$ 

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	Number of Students passed								
Classes	in at least one subject	In Math	In English	In math but not English 252					
1	600	480	348						
2	500	375	400	100					
3	490	350	378	112					
4	375	300	300	75					
5	440	385	363	77					
6	585	494	390	195					

Similarly for all other classes:

So the required sum = 252+100+112+75+77+195 = 811

62. Which class ranks third among the number of students who passed in English when arranged in ascending order?

A) 40%

B) 16%

C) 25%

- D) 18%
- E) 20%

## Option C

#### Solution:

See the table in solution of 1st question: Required class is 5th.

63. How many students in class 4 have not passed in Math?

- A) 4:3
- B) 6:5

C) 2:5

D) 8:5

E) 2:3

#### Option B Solution:

Passed = 20% So not passed = 80/100 \* 1500

- 64. What is the ratio of number of students who have passed in only Math in class 2 to the number of students who have passed in Math in class 3.
  - A) 40%
  - B) 56%
  - C) 2 : 7

•	Data Interpretation Questions for upcoming exams PDF
•	D) 68% E) 70%
•	<b>Option E</b> <b>Solution:</b> From the table in question 1 above: Number of students passed in only math in class 2 = 500-400 = 100 Number of students passed in math in class 3 = 350
•	SO ratio 100 : 350

65. Which of the following is true about the number of students, n who have passed in only English in class 5?

A) 0 < n < 10 B) 10 < n < 14 C) 14 < n < 21 D) 21 < n < 37 E) 37 < n < 56

## Option E

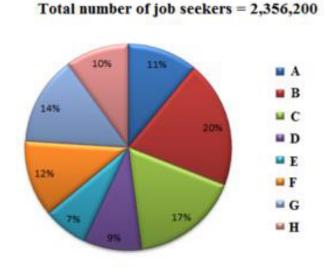
Solution:

Number of students who have passed in only English in class 5, n = 440 – 385 = 55

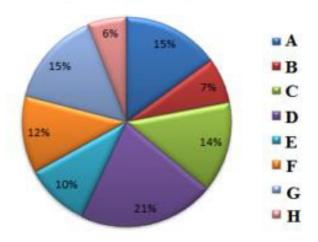
#### Directions (66 – 70):

The following pie charts show the percentage of people applied for jobs from different countries and people who got the job from each country respectively.

Success rate is defined as the number of people who got the job as a percentage of the number of job seekers.



People who got the job = 71400



66. Find the success rate of country A to C. A) 125 : 184



B) 165 : 254

C) 276 : 123

D) 255 : 154

E) None of these

#### Option D

#### Solution:

Since the total number is same, there is no need to find the exact number of people who got job.

So required ratio:

A : C 15/11 : 14/17 = 255 : 154

67. Find the difference between the number of people who got job from countries F and H.

- A) 4376 B) 4284 C) 4128
- D) 4173

E) None of these

## **Option B**

#### **Solution:** Difference = (12-6)% of 71400 = 4284

68. What is the approximate percentage point difference between the success rate of countries D and G?

- A) 6%
- B) 4%
- C) 8%
- D) 5%

```
E) None of these
```

## Option B

#### **Solution:** For country D: Total job seekers = 9/100 \* 2356200 = 212058 and who got job = 21/100 \* 71400 = 14994 so success rate = 14994/212058 \* 100 = 7% For county G:

Total job seekers = 14/100 \* 2356200 = 329868

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and who got job = 15/100 \* 71400 = 10710 so success rate = 3% So different in % points = 7 – 3 = 4

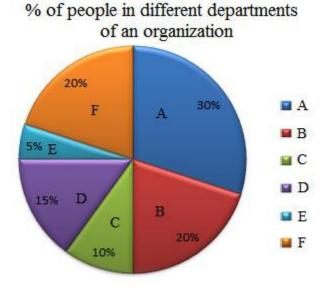
69. What is the success rate of country B? A) 0.63% B) 3.55% C) 1.06% D) 2.62% E) 1.52%

> **Option C Solution:** Total job seekers = 20/100 \* 2356200 = 471240 and who got job = 7/100 \* 71400 = 4998 so success rate = 4998/471240 \* 100 = 1.06%

70. Find the success rate of female job seekers if the success rate of male job seekers is 3.14%A) 11.23%B) 12.17%C) 18.45%D) 16.24%E) Cannot be determined

Option E Solution: Number of females and males is not given so cant be determined.

#### Directions (71 – 75): Study the following pie chart and table to answer the following questions:



	Below 40 years (Male : Female)	Above 40 years (Male : Female)
Α	9:11	4:5
В	9:1	3:7
С	7:8	8:7
D	7:8	7:9
E	4:1	5:7
F	7:3	1:9

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<ul> <li>71. If the total number of people in department B below the age 40 and years and above 40 years is 1320, find the total number of people in the company altogether?</li> <li>A) 6600</li> <li>B) 6700</li> <li>C) 5400</li> <li>D) 6200</li> <li>E) 5800</li> </ul>
<ul> <li>Option A</li> <li>Solution:</li> <li>20/100 * total people in company = 1320</li> <li>So total people in company= 6600</li> </ul>
<ul> <li>72. If the total number of people in department C is 160, then what is the number of female employees above 40 years in department D?</li> <li>A) 144</li> <li>B) 146</li> <li>C) 125</li> <li>D) 135</li> <li>E) 122</li> </ul>
Option D Solution: 10/100 * total people in company = 160 So total people in company= 1600 So female employees above 40 years in department D = 9/16 * 15/100 * 1600 = 135
<ul> <li>73. If the total number of employee in department D is 375 and total number of males above 40 years of age and females below 40 years of age is 122 in department F, then what is the number of males below 40 years in department F?</li> <li>A) 258</li> <li>B) 266</li> <li>C) 243</li> <li>D) 252</li> <li>E) 247</li> </ul>
Option D Solution: 15/100 * total people in company = 375 So total people in company= 2500

Data Interpretation Questions for upcoming exams PDF	www.aspirantszone.com					
And total people in department F is 20/						
Let total number of employees in dept D below 40 years is x and above 40 years is y. Then						
1/10 * y + 3/10 * x = 122  or						
3x + y = 1220						
Also from above total people in department F is 500 so						
Solve the two equations, x = 360	x + y = 500					
So number of males below 40 years in	department $F = 7/10 * 360 = 252$					
So hamber of males below 40 years in						
	0 years and number of male employees above 40					
	tively, then find the number of employees in					
company A.						
A) 2160						
B) 2090						
C) 2450						
D) 2370 E) 2280						
E) 2280						
Option E						
Solution:						
1/5 * employees below 40 years in E =						
So employees below 40 years in E = 20	0					
AND						
5/12 * employees below 40 years in E =						
So employees above 40 years in E = 18 So total employees in E = 200+180 = 38						
So 5/100 * total employees in company						
So total employees in company = 7600						
So total employees in dept A = $30/100^{\circ}$						
	ent A is 255 and total number of males below 40					
	age is 131 in department B, then find the ratio of					
	40 years and total number of employees in dept B					
above 40 years? A) 6 : 11						
B) 3 : 8						
C) 5 : 12						
D) 10 : 17						
E) 7 : 11						



## Option A

Solution: 30/100 \* total people in company = 255So total people in company= 850 And total people in department B is 20/100 \* 850 = 170Let total number of employees in dept B below 40 years is x and above 40 years is y. Then 9/10 \* x + 7/10 \* y = 131 or 9x + 7y = 1310Also x + y = 170Solve the two equations, x = 60, y = 110So ratio = 60 : 110 = 6 : 11

Directions (76 – 80): (asked exact same type in SBI PO Main 2016 exam) The following table shows the MP, SP, Profit, Profit% and Discount% on 5 different products sold. Some values are missing in the table. Fill in the values and use it to answer the following questions:

Products	MP	CP	Profit	Profit%	Discount%
Α		250		20	25
В	1100		22	10	
С	300	180	27		16
D		320	16		73
E	1100		27	10	
F	600	360			31

76. What is the difference in the MPs of products E and C?

- A) Rs 780
- B) Rs 830
- C) Rs 800
- D) Rs 700
- E) Rs 920

**Option C Solution:** MP of C = 300 For MP of E: 10/100 \* CP = 27

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So CP = 270, then SP = 270 + 27 = Rs 297 So MP = 100/(100-73) \* 297 = Rs 1100 So difference = 1100 – 300 = Rs 800 Similarly find all values for questions

Products	MP	СР	Profit	Profit%	Discount%
Α	400	250	50	20	25
В	1100	220	22	10	78
С	300	180	27	15	31
D	400	320	16	5	16
E	1100	270	27	10	73

77. Find the difference in percentage points of discounts given for products E and discounts given for products B and C together.

A) 49%

B) 36%

C) 33%

D) 45%

E) 76%

#### Option B

Solution:

Discount% for E = 73% Discount% for B: 10/100 \* CP = 22 So CP = 220, then SP = 220 + 22 = 242 MP = 1100, so discount % = (1100-242)/1100 \* 100 = 78% Similarly discount % for C = 31% So required percentage points = (31+78) - 73 = 36%

78. What is the total of MP of product D and SP of product B?

- A) Rs 642 B) Rs 532 C) Rs 628 D) Rs 568
- E) Rs 544

Option A Solution:



For country D: 400 + 242 = Rs 642

79. If a person buys products A and E for their respective selling prices, then what is the resultant discount% given to him?

A) 50.70%

B) 60.20%

- C) 48.06%
- D) 67.62%
- E) 54.50%

## **Option B**

Solution:

Total MP of A and E = 400+1100 = Rs 1500 Total SP of A and E = 300+297 = Rs 597 So discount% = (1500-597)/1500 \* 100 = 60.2%

80. Find the profit% given for product F.

A) 16%

B) 12%

C) 18%

D) 15%

E) Cannot be determined

#### Option D Solution:

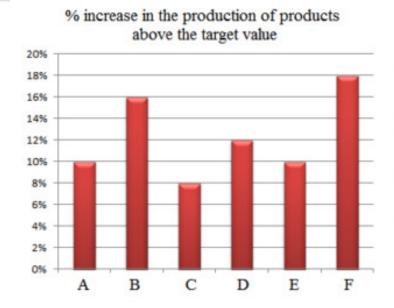
Use formula MP = (100+p%)/(100-d%) \* CP So 600/360 = (100+p%)/(100-31) Solve, p% = 15%

Directions (81 – 85):

A company makes a target of producing 1250 each of its 6 products A, B, C, D, E, and F in a month for selling to its distributors. But after a month it was found that company could manufacture each product more than the target value

The bar graph shows the % increase in the productions of each of the products. The table shows the ratio of defective to non-defective products sold.

Study the bar graph and table to answer the questions that follow.



	Defective :
Products	Non Defective
Α	2:9
В	1:4
С	2:7
D	1:6
E	3:8
F	1:4

81. Find the total products D and E which are defective.

- A) 665
- B) 676
- C) 542
- D) 575
- E) 584

# **Option D**

### Solution:

First find each of the total products

A's production is 10% above the target value of 1250.

### So

A – 110/100 \* 1250 = 1375

- B 116/100 \* 1250 = 1450
- C 108/100 \* 1250 = 1350
- D 112/100 \* 1250 = 1400
- E 110/100 \* 1250 = 1375

F – 118/100 \* 1250 = 1475

Defective D products = 1/7 \* 1400 = 200 Defective E products = 3/11 \* 1375 = 375

So total = 200+375 = 575

- 82. Find the difference in production of products B and E together (non-defective) and production of products A and F together (defective).
  - A) 1615
  - B) 1461
  - C) 1254



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D) 1358 E) 1225
Option A         Solution:         Non-Defective B products = 4/5 * 1450 = 1160         Non-Defective E products = 8/11 * 1375 = 1000         Defective A products = 2/11 * 1375 = 250         Defective F products = 1/5 * 1475 = 295         So required ans = (1160+1000) - (250+295) = 1615
<ul> <li>83. Products A and B are sold for Rs 100 and Rs 120 respectively. The defective A and B products are returned to the company, how much worth of product are returned to the company?</li> <li>A) Rs 62200</li> <li>B) Rs 72700</li> <li>C) Rs 59800</li> <li>D) Rs 63100</li> <li>E) Rs 34800</li> </ul>
<b>Option C</b> <b>Solution:</b> Defective A products = 250 Defective B products = 1/5 * 1450 = 290 So loss = 250*100 + 290*120 = Rs (25000 + 34800) = Rs 59800
<ul> <li>84. Production of products C and E costs Rs 50 and Rs 60 respectively. They are sold for Rs 60 and Rs 80 respectively. If the defective products are returned to the company, find the loss% incurred by the company because of these products (considering that defective products are a waste for the company).</li> <li>A) 4.57%</li> <li>B) 4.67%</li> <li>C) 5.93%</li> <li>D) 3.35%</li> <li>E) 5.28%</li> </ul>
<b>Option B</b> <b>Solution:</b> CP of C products = 1350 * 50 = Rs 67500 CP of E products = 1375 * 60 = Rs 82500 So total CP of C and E = 67500 + 82500 = Rs 1,50,000 Non-Defective C products = 7/9 * 1350 = 1050 So amount got by selling these Non-Defective C products = 1050*60 = Rs 63000 Non-Defective E products = 8/11 * 1375 = 1000

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So amount got by selling these Non-Defective E products = 1000\*80 = Rs 80000 So total SP of Non-Defective C and E products = 63000 + 80000 = Rs 1,43000 Defective C and E products are returned, so that is a loss. So Loss % = (150000 – 143000)/150000 \* 100 = 4.67%

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- 85. All defective products are returned to the company and also the company will have to give a penalty of Rs 5 on defective A, B and D products and Rs 6 on defective C, E and F products. Find the total penalty to be given by the company?
  - A) Rs 9460
  - B) Rs 9280
  - C) Rs 9840
  - D) Rs 9520
  - E) Rs 9420

# Option D

# Solution:

Defective A products = 250 Defective B products = 290 Defective C products = 300 Defective D products = 200 Defective E products = 375 Defective F products = 295 So penalty = (250+290+200)\*5 + (300+375+295)\*6 = 3700 + 5820 = Rs 9520

### Directions (86 - 90):

Company ABC has 3480 employees in eight departments. The difference between the number of employees in the departments F and E is 472. The ratio of employees in departments F to C is 7:6. Ratio of employees in departments G to D is 4:3, while department H has 88 more employees than department A. Department B has 328 employees. Department D has 40 more employees than department E and Department A has 208 employees more than department G.

86. What is the difference between the number of employees in departments A and F?

- A) 134
- B) 187
- C) 165
- D) 144
- E) 128

#### Option D Solution:

Let the number of employees in department F and C be 7x and 6x respectively Let the number of employees in department E be y. Then, number of employees in department D = y + 40

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Department G = 4/3(y + 40)Department A = 4/3(y + 40) + 208Department H = 4/3(y + 40) + 296Department B = 328So, 7x + 6x + y + y + 40 + 4(y + 40) + 208 + 296 + 328 = 348013x + 6y = 24487x - y = 472Solve the equations we get x = 96 and y = 200So number of employees in departments A - 528, B - 328, C - 576, D - 240, E - 200, F - 672, G - 320, H - 616So difference in A and F = 672 - 528 = 144

87. What is the difference between the number of employees in departments A and B together and the number of employees in departments C and E together?

A) 89 B) 96 C) 73

D) 75

E) 80

# Option E

Solution:

- A 528, B 328, C 576, D 240, E 200, F 672, G 320, H 616 (A + B) – (C + E) = (528 + 328) – (576 + 200) = 80
- 88. In there are 290 and 278 females in departments C and H respectively, then find the ratio of the number of male employees in these two departments respectively.
  - A) 8 : 13 B) 12 : 17 C) 11 : 13
  - D)9:13
  - E) 11 : 15

### Option C Solution:

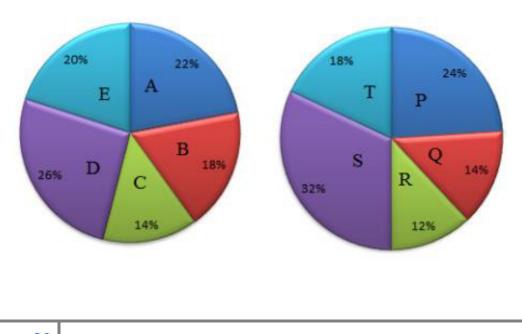
A – 528, B – 328, C – 576, D – 240, E – 200, F – 672, G – 320, H – 616 Employees in C = 576, females = 290, so males = 286 Employees in H = 616, females = 278, so males = 338 So ratio = 286 : 338 = 11 : 13

89. If 5% and 15% of employees in departments D and G are on a tour to a different city, how many employees from these two departments have come to office (it is mandatory to be on work on

	retation Ques ng exams PDF	tions		www.aspirantszone.com		
	icular day)?					
A) 500	B) 534	C) 564	D) 487	E) 465		
-	ion A ition:					
		- 576. D - 2	40. F – 200. F ·	– 672, G – 320, H – 616		
				5/100 * 240 = 228		
	<i>,</i>			5/100 * 320 = 272		
So t	nose have cor	ne to office f	rom these 2 d	lepartments = 228 + 272 = 500		
		•		F is 7 : 5 and 4 : 3 respectively. Find the percent		
	es in these tw			E) Cannot be determined		
A) 66%	B) 42%	C) 48%	D) 55%	E) Cannot be determined		
	ion B					
	tion:					
				– 672, G – 320, H – 616		
Females in C = $5/12 * 576 = 240$						
	ales in $F = 3/7$			0. 42%		
50 %	or females =	(240+288)/(5	576+672) * 10	0 = 42%		

Directions (91 - 95):

The first pie chart shows the distribution of students who participated from different states A, B, C, D and E in five sports P, Q, R, S and T. The second pie chart shows the distribution of students who participated in different sports P, Q, R, S and T from given states.



Total students who participated = 4800

# Data Interpretation Questions for upcoming exams PDF www.aspirantszone.com 91. If 25% of students from state A participate in sport R, then what percent of students who participate in sport R are from state A? A) 46% B) 67% C) 54% D) 37% E) 58% Option A Solution: Number of students from state A who participated in R = 25% of 22% of 4800 = 264 Total Number of students who participated in R = 12% of 4800 = 576

So required % = 264/576 \* 100 = 46%

92. If from states A and D, no one took part in sport Q, then find the number of students from state B who took part in sport Q given they are 78 less than the average number of students participated from all states in sport Q.

A) 161

B) 155

C) 125

D) 146

E) 182

## Option D

### Solution:

Number of students participated in sport Q = 14% of 4800 = 672 Now no one from A and D participated in Q, so average of students from each state = 672/3 = 224 (i.e. from states B, C and E)

So number of students who participated from state B = 224 – 78 = 146

- 93. If in sport S, 25% of students from state B participated, 25% students more than from state B participated from state C and ratio of students who participated from states A, D and E is 4 : 6 : 5, then find the number of students from state D who participated in sport S.
  - A) 620
  - B) 720
  - C) 590
  - D) 630
  - E) 420



#### Option E Solution:

Who participated in sport S = 32% of 4800 = 1536 Students from state B who participated in S = 25% of 18% of 4800 = 216 Students from state C who participated in S = 125% of 216 = 270 So who participated from states A, D and E = 1536 – (216+270) = 1050 From A : D : E is 4 : 6 : 5 So 4x + 6x + 5x = 1050Solve, x = 70So from D = 6x = 6\*70 = 420

- 94. If a total of 552 students from states A, B, C and E participated in sport T, then find how much percent of students from state D participated in sport T.
  - A) 25%

B) 17%

C) 33%

- D) 35%
- E) 28%

# Option A

### Solution:

Number of students who participated in sport T = 18% of 4800 = 864 So number of students from state D who participated in sport T = 864 – 552 = 312 Number of students who participated from state B = 26% of 4800 = 1248 So required% = 312/1248 \* 100 = 25%

- 95. If 70% of students from state E and 75% of students from state C do not won any prizes, then find the % of students from these two stets who won the prizes?
  - A) 25%
  - B) 32%
  - C) 24%

D) 28%

E) 23%

# Option D

# Solution:

Who won prizes from state E = 30% of 20% of 4800 = 288Who won prizes from state C = 25% of 14% of 4800 = 168So total from these two states who prizes = 288+168 = 456

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Total students who participated from these 2 states = (20+14)% of 4800 = 1632So required % = 456/1632 \* 100 = 28%

### Directions (96 – 100): Study the following and answer the questions that follow:

There are some people who want to eat three different fruits – orange, grapes and strawberry. Number of people who want to eat oranges is 4500, of which 26 2/3% people want to eat both oranges and grapes only. The number of people who want to eat both grapes and strawberry only are 33 1/3% greater than those who want to eat all the three fruits. The number of people who want to eat strawberry but not grapes is 3700. The number of people who want to eat only grapes is 1900 less than those who want to eat strawberry but not grapes. The number of people who want to eat grapes but not oranges is 3000. The number of people who want to eat both oranges and strawberry only is 1500.

96. What is the total number of people who want to eat grapes?

A) 5100

B) 5800

C) 5600

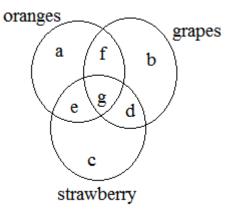
D) 5400

E) 5200

# **Option A**

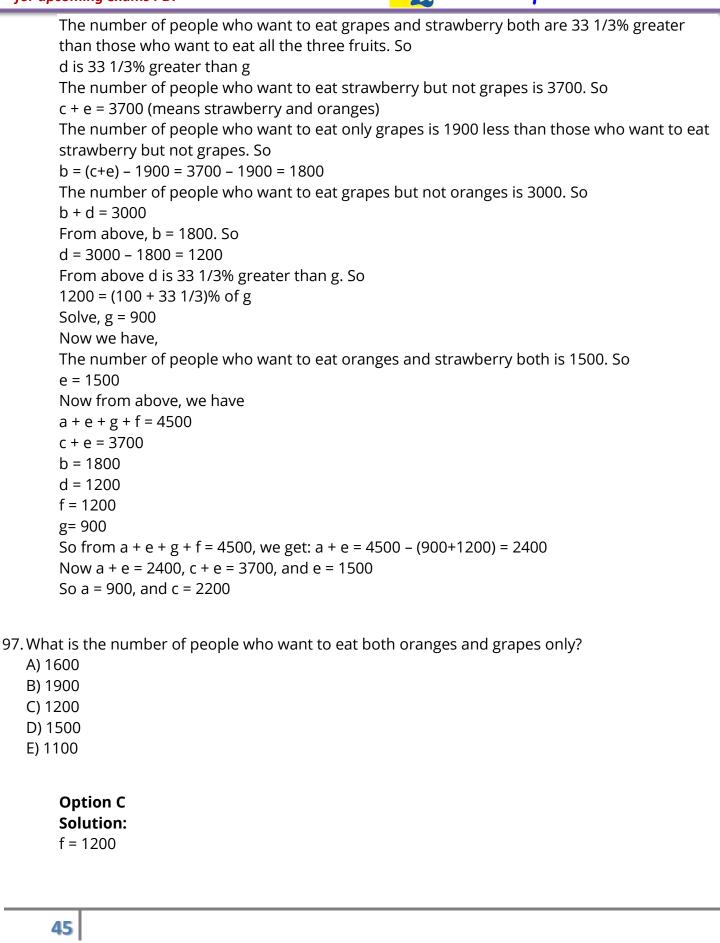
### Solution:

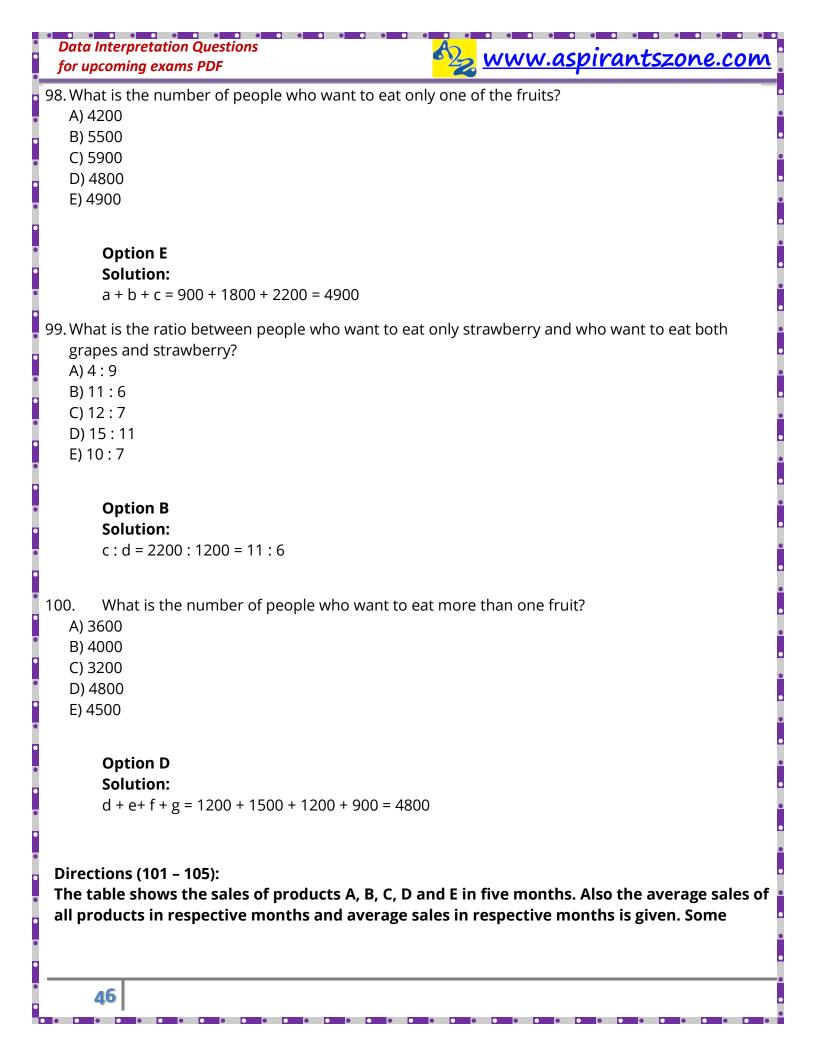
b + d + f + g = 1800 + 1200 + 900 + 1200 = 5100



The question will be solved using venn diagram as: Given: Number of people who want to eat oranges is 4500 so a + e + g + f = 4500of which 26 2/3% people want to eat only oranges and grapes so f = 26 2/3% of 5500 = 1200

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values are missing in the table. Find the values on the basis of given information and answer accordingly.

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Products	January	February	March	April	May	Average
Α	2050	2200		2300		2300
В		2350	2250	2500		2404
С	2250		1950		2230	2200
D	2100	2540		2450	2070	2242
Е		2650	2300		2400	2310
Average	2150	2392	2190	2350	2374	

101. What is the average number of C products sold in February, A products sold in April and E products sold in January?

A) 2800

B) 2190

C) 2280

D) 2130

E) 1090

# Option B

### Solution:

In Feb column only 1 value is missing. So it can be found as

2392\*5 - (2200+2350+2540+2650) = 2220 = Sales of C in February

Now after filling this value in table, in C product row, only 1 value is missing. It can be found as

2200\*6 - (2250+2220+1950+2230) = 2350 = Sales of C in April

Now fill this in table. in April column only 1 value is missing.

So like this all the missing values can be found.

Final table is

<b>Products Jan</b>	uary Fe	bruaryM	arch Ap	oril M	ay Av	verage
Α	2050	2200	2400	2300	2550	2300
B	2300	2350	2250	2500	2620	2404
С	2250	2220	1950	2350	2230	2200
D	2100	2540	2050	2450	2070	2242
Ε	2050	2650	2300	2150	2400	2310
Average	2150	2392	2190	2350	2374	
(2220 + 2300	) + 2050)	/3 = 2190	)			

102. Sales of B in January and April is how much percent greater than sales of D in March and April?

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A) 8.61%	
B) 6.55%	
C) 6.25% D) 7.86%	
E) 7.22%	
<b>,</b>	
Option D	
<b>Solution:</b> [(2300+2500) – (2300+2150)]/[(230	(0+2150) * 100 = 7 86%
103. If sales of A in June is equal to the average of sales of A products from Jar	average of sales of B in May and E in May, then find the
A) 2675	
B) 2725	
C) 2335	
D) 2635	
E) 2455	
Option C Solution:	
average of sales of B in May and E	in May = (2620+2400)/2 = 2510
So sales of A in June = 2510	
-	une = (2050+2200+2400+2300+2550+2510)/6 = 2335
104. In which month, there is the highe	est sales of product B?
A) May	
B) April	
C) January	
D) March	
E) February	
Option 1	
Option A Solution:	
From table, sales of B in May is high	ghest – 2620
105. Sales of product D in March is app	proximately what % of sales of product A in February and
May together?	
A) 35%	
B) 32%	
C) 54%	
48	
40	



D) 48% E) 43%

> **Option E Solution:** 2050/(2200+2550) \* 100 = 43.16%

Directions (106 – 110): Study the following table carefully and answer the questions that follow:

The table shows the total employees in different departments and percentage of males out of those in different years. Some values are missing in the table. Find the values on the basis of information given in questions and answer accordingly.

	Engineerin	ng	Arts		Business		Law		Medicine	
Years	Total Emp	% of men	Total Emp	% of men	Total Emp	% of men	Total Emp	% of men	<b>Total Emp</b>	% of men
2009	300	45		60	150	36	200	30	300	38
2010	250	30	280	75		40	260	60	280	40
2011	320	40	220	50	210	40	240	45		45
2012		45	250	60		50	250	50	300	40
2013	320	35	260	65		45	220	35	340	45
2014	350	50	300	60	260	45	240	40	330	

106. Number of employees in Business department in 2012 is 230. What is the respective ratio of the number of men to the total employees in Business department over all the years if the number of Woman employees in 2010 is 120 and in 2013 is 132 in the same department?

- A) 93 : 215
- B) 45 : 124
- C) 76 : 257
- D) 34 : 234
- E) 104 : 211

# **Option A**

### Solution:

Women in 2010 is 120, so 60% of total employees in 2010 is 120. So total employees in 2010 is 200

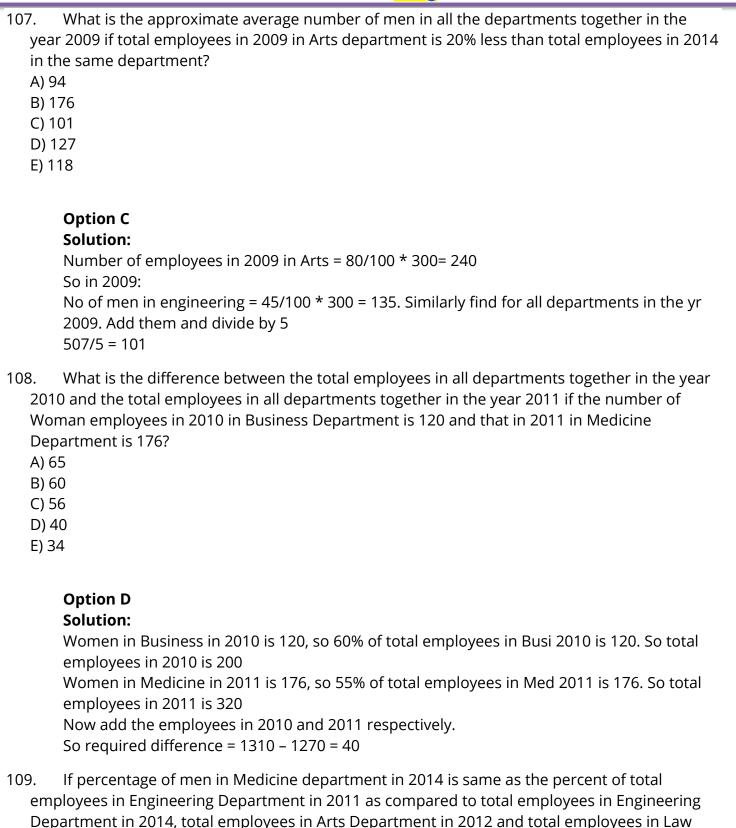
Similarly, total employees in 2013 is 240

Total employees in business = 150+200+210+230+240+260 = 1290

Men in 2009 = 36/100 \* 150 = 54. Similarly find number of men in each year and add. This comes out to be 558

So ratio is 558 : 1290

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Department in 2009 together, then what is the respective ratio of women employees in Medicine

department in the year 2013 to the year 2014?



A) 15 : 21
B) 17 : 18
C) 17 : 13
D) 9 : 13
E) 25 : 16
Option B
Solution:
Total employees in Engineering Department in 2011 = 320
Total employees in Engineering Department in 2014 = 350,
Total employees in Arts Department in 2012 = 250
Employees in Law Department in 2009 = 200
So % of men in Med in 2014 = (320)/(350+250+200) * 100 = 40%
Women employees in Medicine department in the year 2014 = 60/100 * 330
Women employees in Medicine department in the year 2013 = 55/100 * 340
Take their ratio: 2013 : 2014
187 : 198 = 17 : 18

110. Total number of employees in Engineering and Business departments together in 2012 is 570 and difference between then is 110. If the number of employees in Engineering department is greater than those in Business department in the same year, then what is the total number of women employees in all the departments together in the year 2012?

- A) 707
- B) 635
- C) 743
- D) 838
- E) 755

## Option A

#### Solution:

Let Number of employees in engg dept in 2012= E, Number of employees in Busi dept in 2012= B,

E + B = 570

E > B, So E – B = 110

Solve, E = 340 and B = 230

Number of women employees in Engineering = 55/100 \* 340. Similarly find for all departments in the year 2012 and add



#### Direction (111-115): Refer to the table and answer the following questions.

The table shows the performance of 6 batsmen.

Name of Batsman	matches played by batsman in the	Average run scored by batsman in the tournament	Total balls faced in the tournament	Strike Rate
Virat	20	_	_	160
Rohit	16	55	_	_
Rahane	_	60	400	120
Dhoni	_	_	_	80
Shikhar	10	70	800	_
Pujara	_	_	_	70

(i) Strike Rate= (Total Runs Scored/Total balls faced)\*100

(ii) All the batsman could bat in all the matches played

(iii) You have to calculate the missing value and give the answer accordingly.

- 111. If the respective ratio between the balls faced by Dhoni and Pujara is 4:5, then by what percent did Pujara score more than Dhoni?
  - A) 5.27%
  - B) 9.67%
  - C) 8.57%
  - D) 9.37%
  - E) Cannot be determined

# Option D

#### **Explanation**:

Strike rate = (Run/Ball)\*100=> Run= (S.R \* Ball)/100 Let ball Dhoni:Pujara =4x:5x Run by Dhoni(D)=80\*4x/100=32x/10 Run by Pujara=70\*5x/100=35x/10 Required %=(35x-32x)/32x \*100=9.375%

112. If the runs scored by Shikhar in the last 3 matches of the tournament are not considered, his average decreases by 15. If the runs scored by Shikhar in 8<sup>th</sup> and 9<sup>th</sup> match are below 100 and

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no two scores among these 3 scores are equal , what is the minimum possible run scored by Shikhar in the 10<sup>th</sup> match? A) 115

B) 116

C) 117

D) 118

E) Cannot be determined

### Option D Explanation:

Total runs scored by Shikhar in 10 matches = 10\*70= 700 Runs scored in 1<sup>st</sup> seven matches =7\*(70-15)=385 (as avg reduces by 15) Runs scored in last 3 matches=700-385=315(8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> match) Minimum run in 10<sup>th</sup> match means maximum runs in 8<sup>th</sup> and 9<sup>th</sup> match. But run in 8<sup>th</sup> and 9<sup>th</sup> matches are below 100, => one is 99 other is 98 (as no run is equal) Hence run in 10<sup>th</sup> match=315-(99+98)=118

- 113. Total balls faced by Virat is 600 less than the total runs made by him. What is the average of Virat in the tournament?
  - A) 70
  - B) 75
  - C) 80
  - D) 85
  - E) Cannot be determined

# Option C

Explanation: Let average=x =>Total run=20x Balls=20x -600 =>(20x/(20x-600))\*100=160 [Strike Rate] Solve x=80

- 114. Rohit faces equal number of balls in first 8 matches he played in the tournament and the last 8 matches he played in the tournament. If his strike rate in first 8 and last 8 matches of the tournament are 80 and 96 respectively, What is the total number of balls faced by him in the tournament?
  - A) 500
  - B) 400
  - C) 1000
  - D) 800



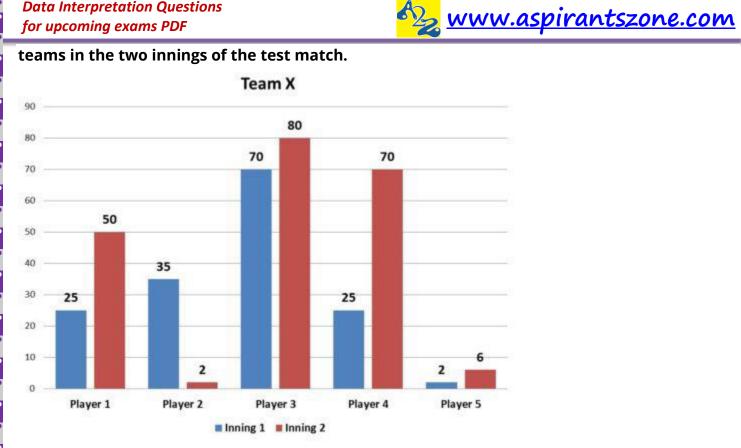
E) 1200

115.

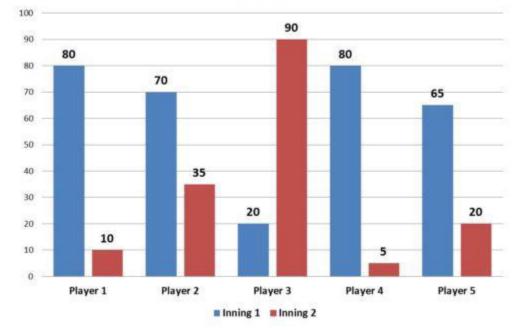
```
Option C
    Explanation:
     Let he played x balls in 1<sup>st</sup> 8 matches and x balls in last 8 matches.
    S.R = Run/Ball *100 => Run=(S.R * Ball*100)
    For 1<sup>st</sup> 8 matches => Run= 80x/100
    For last 8 matches=> Run = 96x/100
    Total run=16*55=880
    => 80x/100 + 96x/100 = 880
    x=500
    Total balls =2x=1000
    What is the number of match played by Rahane in the tournament?
A) 10
B) 12
C) 8
D) 6
E) 9
```

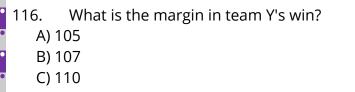
**Option C Explanation**: 60x/400 \*100 =120 x=8

Direction (6-10): A test cricket match is played between Team X and Team Y. Both teams have only 5 players. The following bar graph shows the runs scored by different players of both the



Team Y





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D) 112 E) 114

### Option C

Explanation:

	Inning 1	Inning 2	Total
Player 1	25	50	75
Player 2	35	2	37
Player 3	70	80	150
Player 4	25	70	95
Player 5	2	6	8
Total	157	208	365
	Inning 1	Inning 2	Total
Player 1	80	10	90
Player 2	70	35	105
Player 3	20	90	110
Player 4	80	5	85
Player 5	65	20	85
Total	315	160	475

Y-X=110

117. If the man of the match is given on the basis of highest average run in a match, then who gets the man of the match?

A) Player 3 of Team Y

- B) Player 2 of Team Y
- C) Player 2 of Team X
- D) Player 3 of Team X
- E) None of these

# Option D

# Explanation:

Player 3 of Team X has the highest total score= 150 hence his average is also highest.

118. The total runs scored by the highest run scorer of team X is by what percent greater/lower than the total runs scored by the highest run scorer from Team Y?



A) 15.67%

B) 36.36%

C) 26.66%

D) 18.88%

E) None of these

## Option B

#### Explanation:

Highest run scorer in Team X= Player 3=150 Highest run scorer in Team Y= Player 3= 110 required %=(150-110)/110 \*100=36.36%

119. Run rate is calculated as runs scored per over. Team X played 35 and 46 overs in Inning 1 and Inning 2 respectively. Team Y played 65 and 48 overs in Inning 1 and Inning 2 respectively. Which of the following has the highest run rate?

A) Team X in Inning 1

- B) Team X in Inning 2
- C) Team Y in Inning 1
- D) Team Y in Inning 2
- E) Cannot be Determined

Option C Explanation: X(1) =157/35=4.48 X(2)=208/46=4.52 Y(1)=315/65=4.84

Y(2)=160/46=3.47

Hence run rate of team Y in inning 1 is highest =4.84

120. What is the respective ratio between the total runs scored by Team X and Team Y?A) 71:95 B) 73:95 C) 71:105 D) 73:105 E) None of these

**Option B Explanation**: 365:475 =73:95

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# QUIZ ZONE:

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- $\Rightarrow$  English
- $\Rightarrow$  <u>Computer</u>
- $\Rightarrow$  <u>Weekly CA Quiz</u>
- ⇒ <u>Daily Current Affairs Quiz</u>
- ⇒ <u>Static GK</u>
- ⇒ <u>Banking Awareness</u>
- ⇒ <u>Union Budget 2017-18 Quiz</u>

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