

## SAMPLE QUESTIONS FROM THE ULTIMATE BOOK for DATA INTERPRETATION

(Printed Edition)

### THE ULTIMATE BOOK for DATA INTERPRETATION (Printed Edition)

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1.	Easy Level	180
2.	Moderate Level-1	520
3.	Moderate Level-2	1000
4.	Hard Level – 1	300
5.	Hard Level – 2	210
	Total	2200

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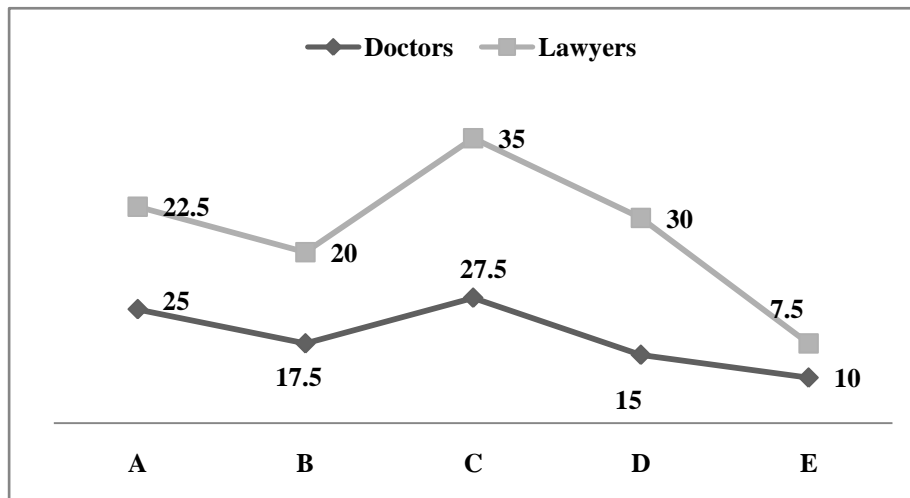
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### Easy level

#### Q-1:

**Direction (Q. 1 - 5):** Study the following information carefully and answer the given questions.

Number of students (Doctors and Lawyers) passed out from various colleges in a year 2017. (In thousands)



**1) What is the average number of students (Doctors and Lawyers) passed out from all the colleges together?**

- a) 36000    b) 42000    c) 50000    d) 38000    e) 65000

**Solution:**

$$A = 25000 + 22500 = 47500$$

$$B = 17500 + 20000 = 37500$$

$$C = 27500 + 35000 = 62500$$

$$D = 15000 + 30000 = 45000$$

$$E = 10000 + 7500 = 17500$$

Then, Average number of Students = 42000

**2) The number of Doctors passing out from Colleges A and B together is approximately what percent of the number of Lawyers passing out from Colleges D and C together?**

- a) 65%    b) 50%    c) 40%    d) 30%    e) 75%

**Solution:**

$$\text{Passed out Doctors from College A and B} = 25000 + 17500 = 42500$$

$$\text{Passed out Lawyers from College E and C} = 30000 + 35000 = 65000$$

$$\text{Required percentage} = (42500/65000) \times 100 = 65\%$$

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**3) What is the difference between the total number of students passing out from college B and the total number of students passing out from college C?**

- a) 29350    b) 26400    c) 25500    d) 25000    e) 28000

**Solution:**

Passed out students from College B = 37500

Passed out students from College C = 62500

Required difference = 25000

**4) What is the ratio of the total number of Doctors from all colleges to the total number of Lawyers from all the colleges?**

- a) 19:23    b) 23:15    c) 23:18    d) 15:29    e) 13:19

**Solution:**

The total number of Doctors from all colleges

= > 25000 + 17500 + 27500 + 15000 + 10000 = 95000

The total number of Lawyers from all colleges

= > 22500 + 20000 + 35000 + 30000 + 7500 = 115000

Required ratio = 19 : 23

**5) The number of Doctors passed out from college C is approximately what percentage of the total number of Doctors passed out from all the colleges together?**

- a) 50%    b) 20%    c) 15%    d) 40%    e) 30%

**Solution:**

The total number of Doctors from all colleges

= > 25000 + 17500 + 27500 + 15000 + 10000 = 95000

The number of Doctors passed out from college C = 27500

Required percentage =  $(27500/95000) \times 100 = 28.9\% = 30\%$

### **Moderate level 1**

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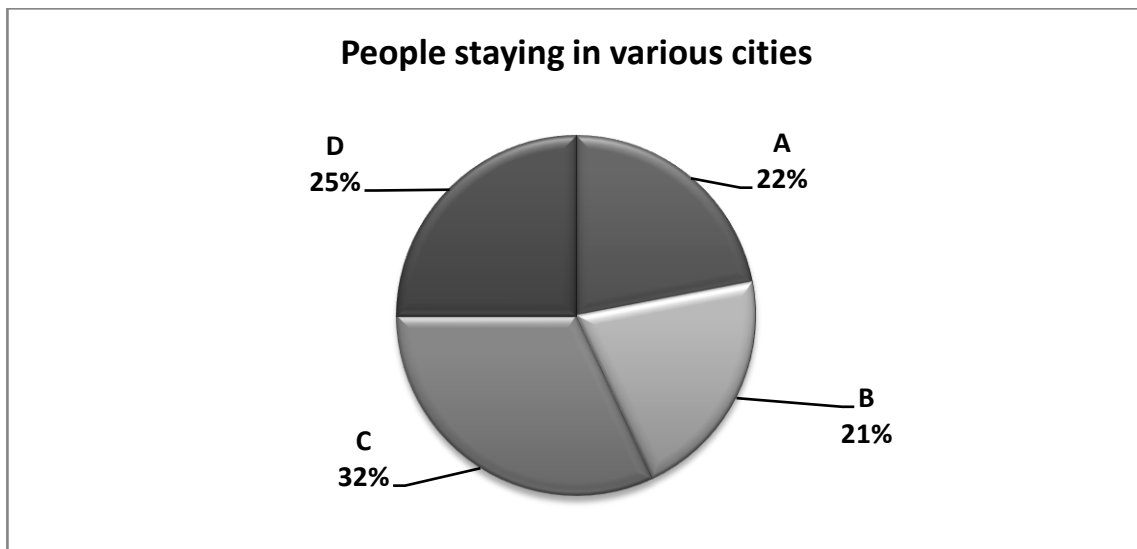
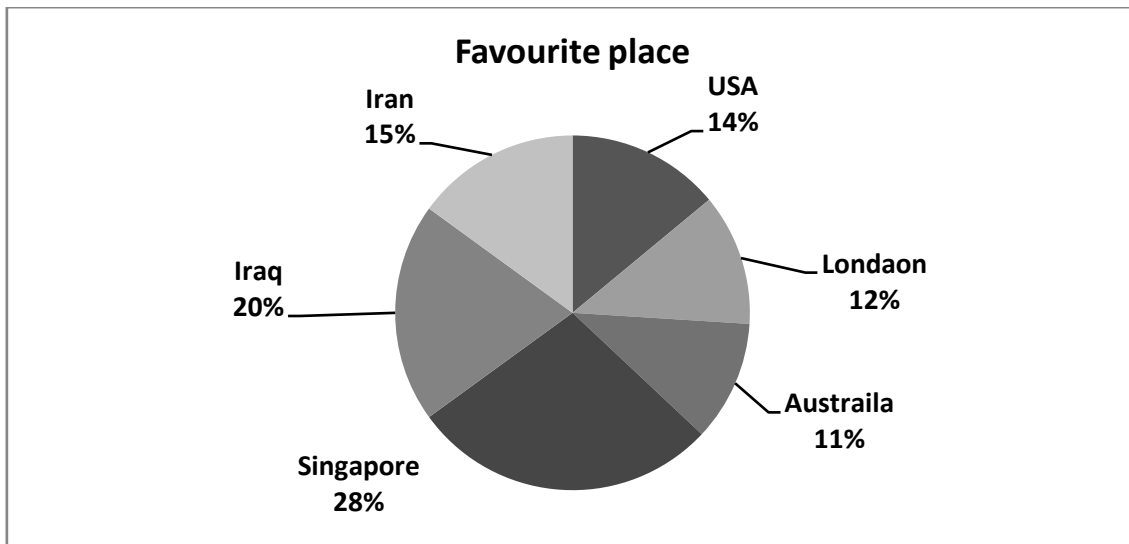
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### Q-2:

**Directions (Q. 6 - 10):** Study the following information carefully and answer the given questions.

A survey conducted on 11600 people staying in various cities and having favourite places.



**6) Singapore is the favorite place of 50% of the people from city C. Then People having their favourite place as Singapore from City C form approximately what percent of the people having their favourite place as Singapore from all the cities together?**

- a) 62%      b) 57%      c) 71%      d) 60%      e) 42%

**Solution:**

Number of people liking Singapore from all the Cities =  $(28/100) \times 11600 = 3248$

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Number of people liking Singapore from city C =  $(50/100) \times 3712 = 1856$   
Required percentage =  $(1856/3248) \times 100 = 57\%$

**7) 20% of the people from city D have Iraq as their favourite place and 12% of the people from the same city have USA as their favourite place. How many people from that city like other places?**

- a) 2516      b) 2216      c) 1972      d) 2900      e) 1473

**Solution:**

Percentage of people liking Iraq and USA from city D = 32%  
Thus, the number of people who likes other places  
= > 68% of 2900 =  $(68/100) \times 2900 = 1972$

**8) 50% of the people from city B have Iraq as their favourite place. How many people from other cities have the same favourite place?**

- a) 1102      b) 2194      c) 1175      d) 2103      e) 1103

**Solution:**

Number of people liking Iraq from all the Cities =  $(20/100) \times 11600 = 2320$   
Number of people liking Iraq from city B =  $(50/100) \times 2436 = 1218$   
Required number of people =  $2320 - 1218 = 1102$

**9) What is the ratio between the number of people having Iran as favourite place and the number of people has Australia as favourite place?**

- a) 11:12      b) 13:21      c) 13:15      d) 15:11      e) 15:13

**Solution:**

Required ratio =  $(15/100) : (11/100) = 15 : 11$

**10) What is the total number of people having their favourite place as London and Australia?**

- a) 3218      b) 2315      c) 4325      d) 5879      e) 2668

**Solution:**

Number of people who like London and Australia together  
= >  $(12+11) \%$  of 11600  
= > 23% of 11600 = 2668

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### **Q-3:**

**Direction (Q. 11 – 15):** Study the following information carefully and answer the questions given below:

Person	Principal Amount (In Rs.)	Rate%	Time (in years)	Amount (in Rs.)
A	78000		7	154440
B	56000	8%	12	
C		12%		176000
D	42000		15	86100
E		15%	20	320000
F	50000	10%		85000

**11) Find the difference between the rate of interest of A and that of D?**

- a) 10.5%    b) 7%    c) 14%    d) 21%    e) None of these

#### **Solution:**

Let rate percent of A =  $r_1\%$

And rate percent of D =  $r_2\%$

Interest of A =  $154440 - 78000 = \text{Rs.}76440$

$(78000 * r_1 * 7) / 100 = 76440$

$\Rightarrow r_1 = 7644000 / (78000 * 7)$

$\Rightarrow r_1 = 14\%$

And

Interest of D =  $86100 - 42000 = 44100$

$(42000 * r_2 * 15) / 100 = 44100$

$\Rightarrow r_2 = 4410000 / (42000 * 15)$

$\Rightarrow r_2 = 7\%$

Required difference =  $14\% - 7\% = 7\%$

**12) If the amount invested by C is Rs.110000 and the time period for which C invested is what percent of time period for which F invested?**

- a) 71.42%    b) 41.72%    c) 72.14%    d) 42.71%    e) None of these

#### **Solution:**

Let the time for which C invested =  $t_1$  years

And the time period for which F invested =  $t_2$  years

Interest of C =  $176000 - 110000 = \text{Rs.}66000$

Interest of F =  $85000 - 50000 = \text{Rs.}35000$

$(110000 * 12 * t_1) / 100 = 66000$

$\Rightarrow t_1 = 6600000 / (110000 * 12)$

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=>  $t_1 = 5$  years

And

$$(50000 \cdot 10 \cdot t_2) / 100 = 35000$$

$$\Rightarrow t_2 = 3500000 / (50000 \cdot 10)$$

$$\Rightarrow t_2 = 7 \text{ years}$$

$$\text{Required percentage} = (5/7) \cdot 100 = 71.42\%$$

**13) Find the sum of the amounts of all the persons?**

a) Rs. 931030

b) Rs. 913300

c) Rs. 931300

d) Rs. 921300

e) None of these

**Solution:**

$$\text{Amount of B} = (56000 \cdot 8 \cdot 12) / 100 + 56000$$

$$= > 53760 + 56000 = \text{Rs. } 109760$$

Required sum

$$= > 154440 + 109760 + 176000 + 86100 + 320000 + 85000 = \text{Rs. } 931300$$

**14) Amount invested by E is what percent more than the amount invested by F?**

a) 45%

b) 50%

c) 55%

d) 60%

e) None of these

**Solution:**

Let the amount invested by E = Rs.  $y$ ,

$$(y \cdot 15 \cdot 20) / 100 + y = 320000$$

$$\Rightarrow 300y + 100y = 32000000$$

$$\Rightarrow 400y = 32000000$$

$$\Rightarrow y = 80000$$

$$\text{Required percentage} = [(80000 - 50000) / 50000] \cdot 100 = 60\%$$

**15) If C invested for 10 years, find the respective ratio of amount invested by C and that of A?**

a) 49:50

b) 39:40

c) 50:49

d) 40:39

e) None of these

**Solution:**

Let the amount invested by C = Rs.  $y$ ,

$$(y \cdot 12 \cdot 10) / 100 + y = 176000$$

$$\Rightarrow 120y + 100y = 17600000$$

$$\Rightarrow 220y = 17600000$$

$$\Rightarrow y = 17600000 / 220$$

$$\Rightarrow y = \text{Rs. } 80000$$

$$\text{Required ratio} = 80000 : 78000 = 40 : 39$$

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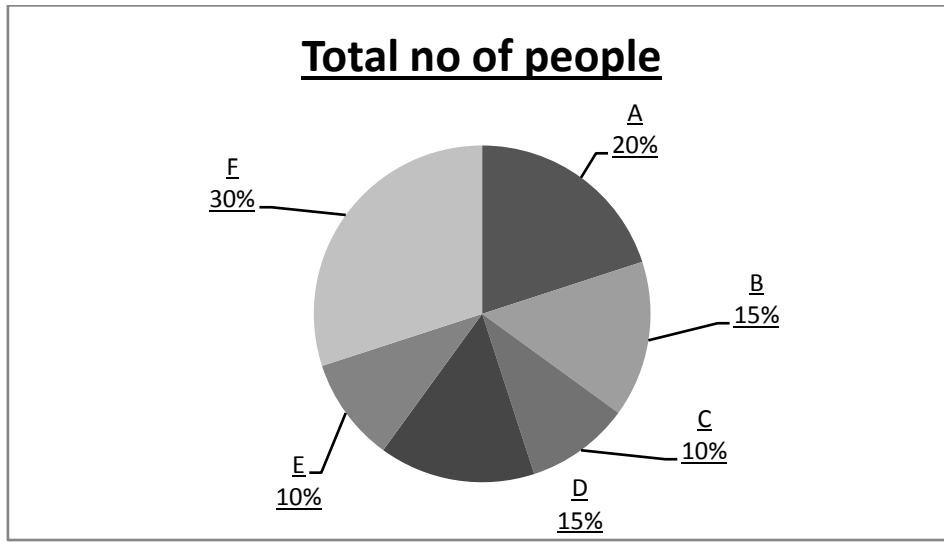
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### Hard level-1

#### Q-4:

**Direction (Q. 16 - 20):** Study the following graph carefully and answer the given questions:

The pie chart shows the percentage distribution of people in different cities in the year 2015  
Total people in the year 2015 = 120000



The table shows the ratio of the no of people in the year 2015 to 2016 in different cities

City	Ratio of people in the year 2015 to 2016	% of below poverty people in the year 2015	% of above poverty people in the year 2016
A	4:5	20	75
B	3:4	15	60
C	3:4	25	50
D	9:10	24	80
E	2:3	18	60
F	6:7	15	70

Note: In total only above and below poverty people taken

**16) What is the ratio of the number of people in above poverty in city B and C in the year 2015 to the no of people in below poverty in city A and D in the year 2016?**

- a) 241:119   b) 243:115   c) 199:123   d) 154:159   e) None of these

**Solution:**

**Direction (Q. 16 - 20):**

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City	2015			2016		
	Total	Above poverty line	Below poverty line	Total	Above poverty line	Below poverty line
A	24000	19200	4800	30000	22500	7500
B	18000	15300	2700	24000	14400	9600
C	12000	9000	3000	16000	8000	8000
D	18000	13680	4320	20000	16000	4000
E	12000	9840	2160	18000	10800	7200
F	36000	30600	5400	42000	29400	12600

Required ratio = (15300+9000): (7500+4000)

= > 24300: 11500 = 243:115

**17) Number of people in city B, C and D in the year 2016 is approximately what percent of the no of people in city A, E and F in the same year?**

- a) 60%      b) 63%      c) 71%      d) 67%      e) 59%

**Solution:**

Required percentage =  $[(24000+16000+20000)/(3000+18000+42000)]*100$

= >  $[60000/90000]*100 = 66.67\% = 67\%$

**18) What is the difference between the no of above poverty people in city C in the year 2016 and the no of below poverty people in city E in the year 2015?**

- a) 5840      b) 5440      c) 5640      d) 4560      e) 6450

**Solution:**

The no of above poverty people in city C in the year 2016 = 8000

The no of below poverty people in city E in the year 2015 = 2160

Required difference = 8000 - 2160 = 5840

**19) In the year 2015, which city has maximum no of below poverty people?**

- a) A    b) D      c) E      d) C      e) F

**Solution:**

In city F has maximum number of below poverty people in the year 2015

**20) If the no of people in the year 2017 is increased by 20% from previous year and the percentage distribution is same as 2015, then find the no of people in city D?**

- a) 24000      b) 25400      c) 27000      d) 32000      e) 28800

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### **Solution:**

Total people in the year 2017 =  $150000 * 120/100 = 180000$

Number of people in city D in the year 2017 =  $180000 * 15/100 = 27000$

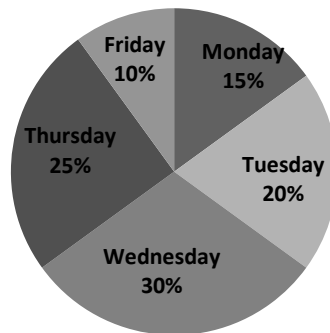
### Hard level-2

#### Q-5:

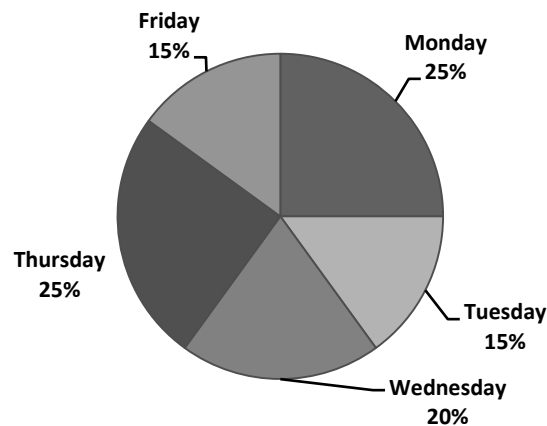
**Directions (Q. 21- 25):** Study the following information carefully and answer the given questions.

The two Pie-charts below shows total upstream and downstream distance travelled by a boat from Monday to Friday

#### **Upstream Distance**



#### **Downstream Distance**



Total Upstream Distance = 200 km

Total Downstream Distance = 360 km

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The Table below shows speeds of the stream on different days of the week:

Days	Speed of stream
Monday	3 km/hr
Tuesday	
Wednesday	2 km/hr
Thursday	3 km/ hr
Friday	

**21) If the speed of the boat on Monday was 15 km/hr then find the difference between the time taken to travel Upstream and Downstream on Monday?**

- a) 1.5 hrs    b) 2 hrs    c) 3.5 hrs    d) 1.2hrs    e) 2.5 hrs

**Solution:**

Speed Upstream on Monday =  $15 - 3 = 12$  km/hr

Time taken to travel upstream =  $(15/100) * (200/12) = 2.5$  hours

Speed Downstream on Monday =  $15 + 3 = 18$  km/hr

Time taken to travel downstream =  $(25/100) * (360/18) = 5$  hours

Required Difference =  $5 - 2.5 = 2.5$  hours

**22) If the boat took 6 hours to cover the upstream distance on Wednesday then find the time which the boat took to cover the downstream distance on Wednesday?**

- a)  $2(4/7)$  hours    b)  $5(5/8)$  hours    c) 4 hours    d)  $5(1/7)$  hours    e) None of these

**Solution:**

Let the speed of the boat on Wednesday be  $x$  km/hr,

Now,

Upstream speed =  $x - 2$

$$6 = 60/(x - 2)$$

$$6x - 12 = 60$$

$$x = 12 \text{ km/hr}$$

So, Time taken to travel downstream on Wednesday

$$= > 72/(12+2) = 36/7 = 5(1/7) \text{ hours}$$

**23) If the speed of the boat on Friday is 13 km/ hr and the speed of the current on Friday is same as on Monday then what is the ratio between the time taken to cover upstream distance and the downstream distance on Friday?**

- a) 17:14    b) 12:17    c) 16:27    d) 15:29    e) 4:5

**Solution:**

Time taken to cover upstream distance on Friday =  $20/(13 - 3) = 2$  hours

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Time taken to cover downstream distance on Friday

$$= > 54/(13 + 3) = 54/16 = 27/8 \text{ hours}$$

Required Ratio = 16 : 27

**24) If the ratio between the upstream speed and downstream speed on Thursday is 2:3 then find the difference between the time taken to cover distance upstream and downstream?**

- a) 2/9 hours   b) 5/6 hours   c) 6/13 hours   d) 5 hours   e) None of these

**Solution:**

Let the speed of the boat on Thursday be  $x$  km/hr,

Upstream speed =  $x - 3$

Downstream speed =  $x + 3$

$$(x - 3)/(x + 3) = 2/3$$

$$3x - 9 = 2x + 6$$

$$x = 15 \text{ km/hr}$$

Time taken to cover distance upstream =  $50/12$

Time taken to cover distance downstream =  $90/18 = 5$

Required difference =  $5 - (50/12) = (30-25)/6 = 5/6 \text{ hrs}$

**25) The speed of the boat on Tuesday is 12 km/hr and the speed of the stream on Tuesday is 50% more than the speed of the stream on Wednesday then find the time taken to travel the upstream distance on Tuesday?**

- a) 51/10 hours   b) 53/8 hours   c) 25/13 hours   d) 25/14 hours   e) 40/9 hours

**Solution:**

Upstream speed on Tuesday =  $12 - (2*(150/100)) = 9 \text{ km/hr}$

Time taken to cover the distance =  $40/9 \text{ hours}$



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