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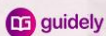
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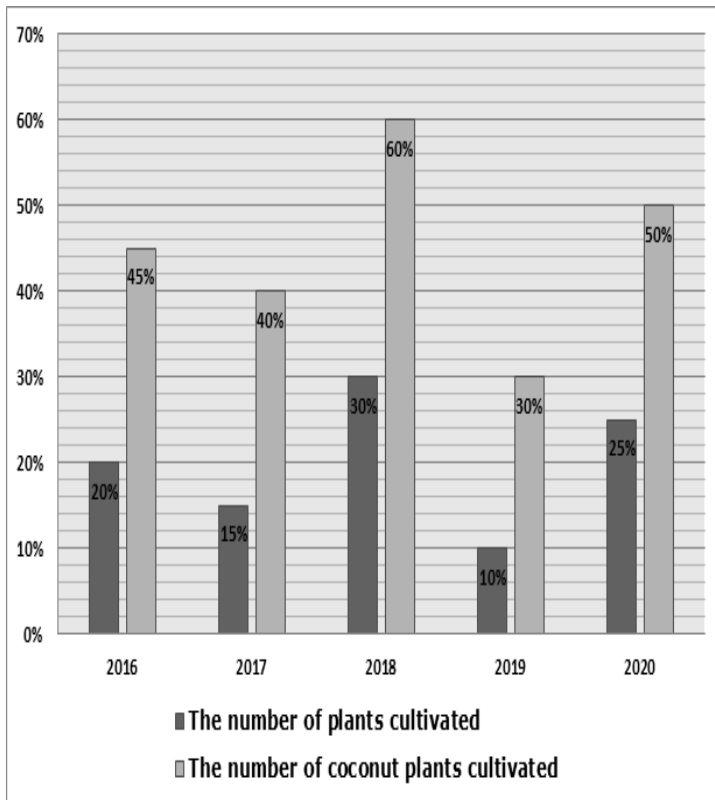
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**Top Important DI Questions Part 2 for IBPS PO Pre 2021 – English Version**

**Directions (1-5):** Read the following information carefully and answer the questions.

The given bar graph shows the percentage distribution of the three different plants (papaya, coconut and pineapple) cultivated in five different years (2016, 2017, 2018, 2019 and 2020), also given the percentage of the number of coconut plants cultivated in five different years and the table given below shows the ratio of the number of papaya and pineapple plants cultivated in five different years.



**Note:** The average number of plants cultivated in the year 2018=500

Years	Ratio of papaya and pineapple plants cultivated
<b>2016</b>	6:5
<b>2017</b>	8:7
<b>2018</b>	7:5
<b>2019</b>	3:4
<b>2020</b>	3:2

1) If the ratio of the number of banana and pineapple plants cultivated in the year 2020 is 9:5, then find the average number of pineapple and banana plants cultivated in the year 2020?

- A. 350
- B. 320
- C. 340
- D. 370
- E. None of these

2) Find the ratio of the number of coconut plants cultivated in the year 2016 and 2019 together to the number of pineapple plants cultivated in the year 2016 and 2019 together?

- A. 4:5
- B. 5:6
- C. 9:7
- D. 4:3
- E. None of these

3) If the number of coconuts, papaya and pineapple plants cultivated in the year 2021 is 175, 220 and 145 more than that of 2019, then find the difference between the number of

**Top Important DI Questions Part 2 for IBPS PO Pre 2021 – English Version**

coconut and papaya plants together and the number of pineapple plants cultivated in the year 2021?

- A. 550
- B. 350
- C. 650
- D. 450
- E. None of these

4) Find the difference between the average number of papaya plants cultivated in the years 2017, 2019 and 2020 together and the average number of pineapple plants cultivated in the years 2017, 2018 and 2019 together?

- A. 65
- B. 25
- C. 35
- D. 45
- E. None of these

5) The number of coconut, papaya and pineapple plants cultivated in the year 2017 is how much percentage more/less than the number of papaya plants cultivated in the year 2018 and 2019 together?

- A. 50% more
- B. 45% less
- C. 30% more
- D. 10% less
- E. None of these

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

The given line graph shows the total number of Hero and Honda bikes sold in five different months and the given table shows the ratio of the number of Hero and Honda bikes sold.



Months	The ratio of Hero and Honda bikes sold
January	4:3
February	5:3
March	1:3
April	4:5
May	5:7

6) Find the ratio of the total number of Honda bikes sold in May and April together to the total number of Hero bikes sold in January and March together?

- A. 2:1
- B. 3:4
- C. 5:3
- D. 3:2
- E. None of these

## Top Important DI Questions Part 2 for IBPS PO Pre 2021 – English Version

7) In February, the selling price of a Honda bike is Rs.40000. If 25% profit is earned on each Honda bike sold and the ratio of the cost price of a Honda to Hero bike is 16:15, then if the Hero bike is sold for Rs. X, the shopkeeper earns an equal amount in Hero and Honda bikes. Find the profit/loss percentage for each Hero bike sold?

- A. 20% loss
- B. 15% profit
- C. 10% loss
- D. 15% loss
- E. None of these

8) The total number of bikes sold in June is 20% more than that of March. If the ratio of the number of Hero to Honda bikes sold in June is 25:23, then find the difference of the total number of Honda bikes sold in March and April together and the total number of Hero bikes sold in March and June together?

- A. 500
- B. 750
- C. 400
- D. 350
- E. None of these

9) If the ratio of the number of Hero to Bajaj bikes sold in March is 4:7, 70% of the people who bought Bajaj bikes are males and 80% of the people who bought Hero and Honda bikes in March are males, then find the total number of females who bought a bike in March?

- A. 250

- B. 290
- C. 310
- D. 265
- E. None of these

10) The Honda bikes sold in March are in only two colors i.e. Black and Blue. If the number of black Honda bikes sold is 40% more than the Blue Honda bikes, then find the total number of Blue Honda bikes in March and Hero bikes in March together?

- A. 450
- B. 500
- C. 400
- D. 350
- E. None of these

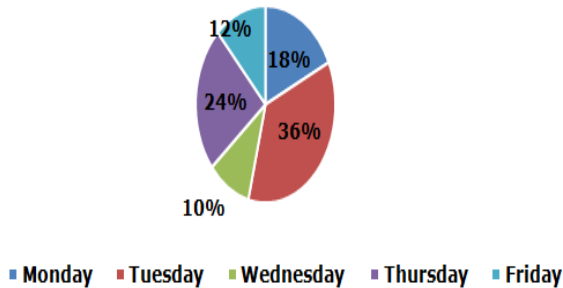
**Directions (11-15):** Read the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of the number of persons who received two different calls i.e. audio and video on five different days (Monday, Tuesday, Wednesday, Thursday and Friday) in Mumbai and the given table shows the ratio of the number of persons who received audio and video calls on five different days.

**Note:** The number of persons who received audio and video calls on Friday is 540.

**Top Important DI Questions Part 2 for IBPS PO Pre 2021 – English Version**

**Percentage distribution of The number of persons who received audio and video calls**



Days	Ratio of the number of persons who received audio and video calls
Monday	5:4
Tuesday	7:5
Wednesday	7:8
Thursday	2:1
Friday	1:5

11) If the ratio of the number of persons who received calls on Saturday and Friday is 11:9 and 45% of the persons received video calls on Saturday. Then find the number of persons who received audio calls on Saturday?

- A. 363
- B. 251
- C. 157
- D. 412
- E. None of these

12) The number of persons who received audio calls on Monday is how much percentage more than the number of persons who received video calls on Thursday?

- A. 35%
- B. 15%

- C. 25%
- D. 45%
- E. None of these

13) Find the ratio of the number of persons who received video calls on Monday and the number of persons who received audio calls on Wednesday?

- A. 1:2
- B. 4:3
- C. 9:5
- D. 12:7
- E. None of these

14) On Thursday, 60% and 50% of the persons who received audio and video calls respectively are males and then find the sum of the number of females who received audio and video calls on Thursday?

- A. 324
- B. 468
- C. 256
- D. 192
- E. None of these

15) If the number of persons who received audio calls on Wednesday and Friday in Delhi is 14.28% and 33.33% more than that of Mumbai and then find the number of persons who received audio calls on Wednesday and Friday together in Delhi?

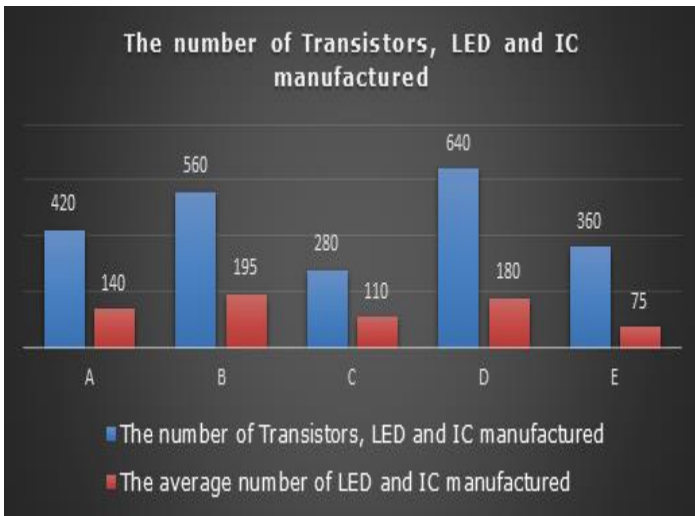
- A. 360
- B. 320
- C. 380

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- D. 340
- E. None of these

**Directions (16-20):** Read the following information carefully and answer the questions.

The given bar graph shows the number of three different electrical components i.e. Transistor, LED and IC manufactured by five different companies (A, B, C, D and E) in January and the average number of LED and IC manufactured by five different companies and the table given below shows the ratio of the number of LED and IC manufactured by five different companies.



Companies	Ratio of the number of LED and IC manufactured
<b>A</b>	3:4
<b>B</b>	5:8
<b>C</b>	7:4
<b>D</b>	7:5
<b>E</b>	2:3

16) If the number of Transistors, LED and IC manufactured in company F is 121, 74 and 95 more than that of company C, then find the average number of transistors, LED and IC manufactured in company F?

- A. 190
- B. 110
- C. 170
- D. 150
- E. None of these

17) The average number of Transistors manufactured in companies A, D and E together is how much more/less than the average number of IC manufactured in companies A, B and C together?

- A. 40 less
- B. 20 more
- C. 30 less
- D. 50 more
- E. None of these

18) In company D, the number of diodes manufactured is 28.56% more than that of LED manufactured and then the number of diodes manufactured is what percentage of the number of LED and IC manufactured?

- A. 60%
- B. 75%
- C. 40%
- D. 55%
- E. None of these

19) Find the ratio of the number of LED manufactured in companies A and B together to

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50% of the number of Transistors and IC manufactured in company E?

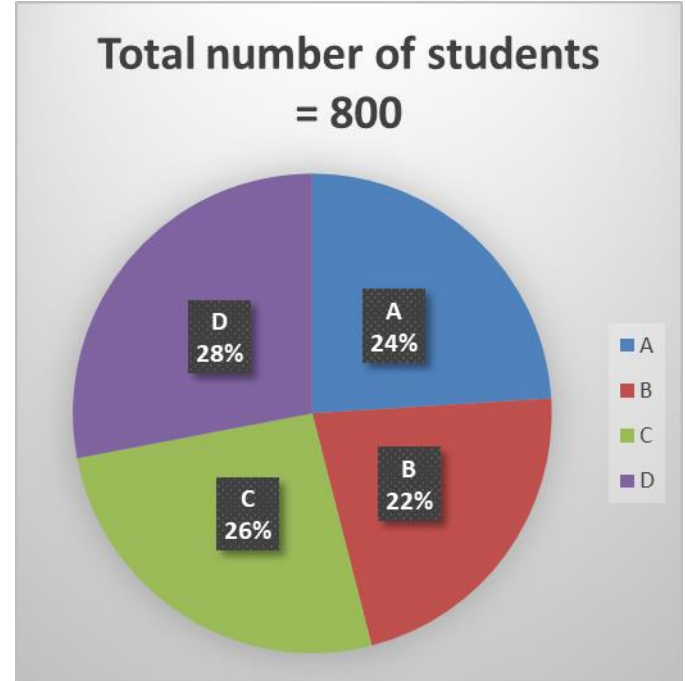
- A. 2:1
- B. 4:3
- C. 9:5
- D. 7:8
- E. None of these

20) In company A, 83.33% and 87.5% of the LED and IC are sold and the selling price of each LED and IC is Rs.8 and Rs.15. Then find the total amount earned on LED and IC together?

- A. Rs.2900
- B. Rs.2700
- C. Rs.2500
- D. Rs.2200
- E. None of these

**Directions (21-25):** Study the pie chart given below carefully and answer the following questions.

The given pie chart shows the total number of students in four different classes of a school. The given table shows the ratio between the boys and girls studying in these classes.



Classes	Ratio of boys to Girls
A	2:1
B	1:3
C	3:1
D	4:3

**Note:** Total number of students = Total Boys + Total Girls

21) Find the ratio between the total number of students in classes B and C together to the total number of girls in classes B and D together.

- A. 19:22
- B. 22:19
- C. 32:19
- D. 19:32
- E. None of these

22) Total number of Students in class D is how much more than the total number of students in class C?

- A. 12
- B. 14

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- C. 15
- D. 16
- E. 13

23) The total number of students in class A is how much more/less than the total number of boys in class B?

- A. 144
- B. 148
- C. 142
- D. 146
- E. None of these

24) The total number of boys and girls in class E is 50% and 25% more than the total number of boys and girls in class C respectively. Find the total number of Students in class E?

- A. 299
- B. 298
- C. 289
- D. 309
- E. None of these

25) Find the difference between the total number of boys in class A and the total number of girls in classes B and C together?

- A. 54
- B. 56
- C. 58
- D. 52
- E. 50

### Answer With Explanation

**Directions (1-5):**

Let the number of plants cultivated in five different years = 100X

The number of plants cultivated in the year 2018 =  $100X \times 30 / 100 = 30X$

The average number of plants cultivated in the year 2018 = 500

The number of plants cultivated in the year 2018 =  $500 \times 3 = 1500$

The number of plants cultivated in five different years =  $100 \times 1500 / 30 = 5000$

Years	The number of three different plants cultivated	The number of coconut plants cultivated	The number of papaya plants cultivated	The number of pineapple plants cultivated
2016	$5000/5=1000$	$1000*9/20=450$	$550/11*6=300$	250
2017	$5000*3/20=750$	$750*2/5=300$	$450/15*8=240$	210
2018	$5000*3/10=1500$	$1500*3/5=900$	$600/12*7=350$	250
2019	$5000*1/10=500$	$500*3/10=150$	$350/7*3=150$	200
2020	$5000/4=1250$	$1250/2=625$	$625/5*3=375$	250

**1) Answer: A**

The number of pineapple plants cultivated in the year 2020 = 250



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The number of banana plants cultivated in the year 2020 =  $250/5 \times 9 = 450$

The average number of banana and pineapple plants cultivated in the year 2020 =  $(250 + 450)/2 = 700/2 = 350$

### 2) Answer: D

The number of coconut plants cultivated in the year 2016 and 2019 =  $450 + 150 = 600$

The number of pineapple plants cultivated in the year 2016 and 2019 =  $250 + 200 = 450$

Required ratio =  $600:450 = 4:3$

### 3) Answer: B

The number of coconut and papaya plants cultivated in the year 2019 =  $150 + 150 = 300$

The number of coconut and papaya plants cultivated in the year 2021 =  $300 + 175 + 220 = 695$

The number of pineapple plants cultivated in the year 2019 = 200

The number of pineapple plants cultivated in the year 2021 =  $200 + 145 = 345$

Required difference =  $695 - 345 = 350$

### 4) Answer: C

The number of pineapple plants cultivated in the year 2017, 2018 and 2019 =  $210 + 250 + 200 = 660$

The average number of pineapple plants cultivated in the year 2017, 2018 and 2019 =  $660/3 = 220$

The number of papaya plants cultivated in the year 2017, 2019 and 2020 =  $240 + 150 + 375 = 765$

The average number of papaya plants cultivated in the year 2017, 2019 and 2020 =  $765/3 = 255$

Required difference =  $255 - 220 = 35$

### 5) Answer: A

The number of coconut, papaya and pineapple plants cultivated in the year 2017 = 750

The number of papaya plants cultivated in the year 2018 and 2019 =  $350 + 150 = 500$

Required difference =  $(750 - 500)/500 \times 100 = 250/500 \times 100 = 50\%$  more

### निर्देश (6-10):

Months	Total bikes sold	Number of Hero bikes sold	Number of Honda bikes sold
January	700	400	300
February	600	375	225
March	800	200	600
April	900	400	500
May	1200	500	700

### 6) Answer: A

Total number of Honda bikes sold in May and April =  $700 + 500 = 1200$

Total number of Hero bikes sold in January and March =  $400 + 200 = 600$

Required ratio =  $1200:600 = 2:1$

### 7) Answer: A

In February selling price of a Honda bike = 40000

Cost price of a Honda bike in February =  $(40000 \times 100)/125 = 32000$

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Cost price of a Hero bike =  $(32000/16) \times 15 = 30000$

$(x \times 375) = (40000 \times 225)$

$x = 24000$

Required loss percentage =  $[(30000 - 24000)/30000] \times 100 = (6000/30000) \times 100 = 20\%$

### 8) Answer: C

Total number of bikes sold in June =  $(800 \times 120)/100 = 960$

Total number of Hero bikes sold in June =  $(960 \times 25)/48 = 500$

Total number of Honda bikes sold in March and April =  $500 + 600 = 1100$

Total number of Hero bikes sold in March and June =  $200 + 500 = 700$

Required difference =  $1100 - 700 = 400$

### 9) Answer: D

Total number of Bajaj bikes sold in March =  $(200/4) \times 7 = 350$

Total number of males who bought Bajaj bikes =  $(350 \times 70)/100 = 245$

Total number of females who bought Bajaj bikes =  $350 - 245 = 105$

Total number of males who bought Hero and Honda bikes =  $[(200 + 600) \times 80]/100 = 640$

Total number of females who bought Hero and Honda bikes =  $800 - 640 = 160$

Required total =  $105 + 160 = 265$

### 10) Answer: A

Total number of Hero bikes sold in March =  $(800/4) \times 1 = 200$

Total number of Honda bikes sold in March =  $(800/4) \times 3 = 600$

Total number of Black Honda bikes sold in March =  $(600 \times 140)/240 = 350$

Total number of Blue Honda bikes sold in March =  $600 - 350 = 250$

Required total =  $200 + 250 = 450$

### Directions (11-15):

Let the number of persons who received audio and video calls on five different days =  $100x$

The number of persons who received audio and video calls on Friday =  $100x \times 12/100 = 12x$

The number of persons who received audio and video calls on five different days =  $100x \times 540/12 = 4500$

Days	The number of persons who received audio and video calls	The number of persons who received audio calls	The number of persons who received video calls
Monday	$4500 \times 18/100 = 810$	$810 \times 5/9 = 450$	$810 - 450 = 360$
Tuesday	$4500 \times 36/100 = 1620$	$1620 \times 7/12 = 945$	$1620 - 945 = 675$
Wednesday	$4500 \times 10/100 = 450$	$450 \times 7/15 = 210$	$450 - 210 = 240$
Thursday	$4500 \times 24/100 = 1080$	$1080 \times 2/3 = 720$	$1080 - 720 = 360$
Friday	$4500 \times 12/100 = 540$	$540 \times 1/6 = 90$	$540 - 90 = 450$

### 11) Answer: A

The number of persons who received audio and video calls on Saturday =  $540/9 \times 11 = 660$

The number of persons who received audio calls on Saturday =  $660 \times 55/100 = 363$

### 12) Answer: C

Required percentage =  $(450 - 360)/360 \times 100 = 90/360 \times 100 = 25\%$

## Top Important DI Questions Part 2 for IBPS PO Pre 2021 – English Version

**13) Answer: D**

Required ratio= $360:210=12:7$

**14) Answer: B**

The number of females who received audio calls on Thursday= $720*2/5=288$

The number of females who received video calls on Thursday= $360/2=180$

Required sum= $288+180=468$

**15) Answer: A**

The number of persons who received audio calls on Wednesday in Delhi= $210*8/7=240$

The number of persons who received audio calls on Friday in Delhi= $90/3*4=120$

Required total= $240+120=360$

**Directions (16-20):**

The number of LED and IC manufactured in company A= $140*2=280$

The number of LED and IC manufactured in company B= $195*2=390$

The number of LED and IC manufactured in company C= $110*2=220$

The number of LED and IC manufactured in company D= $180*2=360$

The number of LED and IC manufactured in company E= $75*2=150$

Companies	The number of Transistors, LED and IC manufactured	The number of Transistors manufactured	The number of LED manufactured	The number of IC manufactured
A	420	$420-280=140$	$280*3/7=120$	$280-120=160$
B	560	$560-390=170$	$390*5/13=150$	$390-150=240$
C	280	$280-220=60$	$220*7/11=140$	$220-140=80$
D	640	$640-360=280$	$360*7/12=210$	$360-210=150$
E	360	$360-150=210$	$150*2/5=60$	$150-60=90$

**16) Answer: A**

The number of Transistor, LED and IC manufactured in company C= $280$

The number of Transistor, LED and IC manufactured in company F= $280+121+74+95=570$

The average number of Transistor, LED and IC manufactured in company F= $570/3=190$

**17) Answer: D**

The number of Transistors manufactured in companies A, D and E= $140+280+210=630$

The average number of Transistors manufactured in companies A, D and E= $630/3=210$

The number of IC manufactured in companies A, B and C= $160+240+80=480$

The average number of IC manufactured in companies A, B and C= $480/3=160$

Required difference= $210-160=50$  more

**18) Answer: B**

The number of LED manufactured in company D= $210$

The number of diodes manufactured in company D= $210/7*9=270$

## Top Important DI Questions Part 2 for IBPS PO Pre 2021 – English Version

The number of LED and IC manufactured in company D =  $210 + 150 = 360$

Required percentage =  $270/360 \times 100 = 75\%$

**19) Answer: C**

The number of LED manufactured in companies A and B =  $120 + 150 = 270$

The number of Transistors and IC manufactured in company E =  $210 + 90 = 300$

Required ratio =  $270:300/2 = 270:150 = 9:5$

**20) Answer: A**

The number of LED manufactured in company A = 120

The number of LED sold in company A =  $120 \times 5/6 = 100$

The number of IC manufactured in company A = 160

The number of IC sold in company A =  $160 \times 7/8 = 140$

Required amount =  $100 \times 8 + 140 \times 15 = \text{Rs.}2900$

**Directions (21-25):**

Classes	Total number of students in each class	Total number of boys	Total number of girls
A	$24 \times 8 = 192$	128	64
B	$22 \times 8 = 176$	44	132
C	$26 \times 8 = 208$	156	52
D	$28 \times 8 = 224$	128	96

**21) Answer: C**

Total number of students in class B = 176

Total number of students in class C = 208

Total number of girls in class B = 132

Total number of girls in class D = 96

Required ratio =  $(176 + 208)/(132 + 96) = 384/228 = 32:19$

**22) Answer: D**

Total number of students in class D = 224

Total number of students in class C = 208

Required difference =  $224 - 208 = 16$

**23) Answer: B**

Total number of students in class A = 192

Total number of boys in class B = 44

Required difference =  $192 - 44 = 148$

**24) Answer: A**

Total number of boys in class C = 156

Total number of girls in class C = 52

Total number of boys in class E =  $156 \times 3/2 = 234$

Total number of girls in class E =  $52 \times 5/4 = 65$

Total number of students in class E =  $234 + 65 = 299$

**25) Answer: B**

Total number of boys in class A = 128

Total number of girls in class B = 132

Total number of girls in class C = 52

Required difference =  $(132 + 52) - 128 = 56$

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