## IBPS PO Mains 2019

## Previous Year

## Questions (Quant)

Direction (1-5) : Study the following graph and table to answer the given questions:
An e-commerce company sells products online. First of all, customers order the products, then some of them cancel their orders. Remaining orders are delivered by the company, after which some of the customer return their products.
In the graph given below the percentage of delivered products from ordered products and percentage of product returned from delivered products for the given months.


In the table below, the number of products delivered is given.

| Month | No. of orders <br> delivered |
| :---: | :---: |
| January | 27000 |
| February | 24000 |
| March | 22500 |
| April | 21600 |
| May | 24000 |
| June | 32000 |

1. What is the ratio of number of sum total of the number of orders canceled in the months of January and March to that of March and June?
A. $2: 3$
B. $3: 4$
C. $4: 5$
D. $3: 5$
E. $5: 8$
2. What is the average number of total orders for the given 6 months?
A. 24000
B. 27500
C. 31500
D. 30750
E. 31750
3. What is the difference of the number of orders canceled and number of orders returned in the month of May?
A. 12500
B. 16240
C. 11280
D. 10240
E. 11760
4. Number of orders canceled in April is what percent less than the number of orders canceled in February?
A. $75 \%$
B. $62.5 \%$
C. $85 \%$
D. $68 \%$
E. $76 \%$
5. What is the sum of the number of the orders finally accepted by customers in February and April?
A. 25000
B. 24000
C. 25600
D. 24500
E. 22500

Direction (6-10): Study the following information to answer the given questions:
Three battery operated robot toys $A, B$ and $C$ do hand movement and leg movement. Battery capacities of the toys $A, B$ and $C$ are $1500 \mathrm{mAh}, 1600 \mathrm{mAh}$ and 1800 mAh respectively. Present battery percentage of the toys $A, B$ and $C$ are $80 \%, 70 \%$ and $75 \%$ respectively. Four hand movements and three leg movements of a toy consume 1 mAh unit of battery. Six hand movements and seven leg movements of a toy consume 2 mAh unit of battery.
6. If toy A started at 9 AM and the battery of the toy discharged at 11 AM and during this period, total number of hand movements done by toy A is 1200 more than the number of leg movements, then on average how many leg movements done by toy A in 1 minute
A. 15
B. 20
C. 25
D. 30
E. None of these
7. If sum of the twice of number of hand movements and number of leg movements done by toy $B$ until the battery runs out is $x$, then which of the following can be the value of $x$
I. 9000
II. 12600
III. 9800
A. Only I
B. Only II
C. Only III
D. Only I and III
E. None of three
8. Toy $C$ does 1500 hand movements and y leg movements and toy $B$ does y hand movements and 2000 leg movements. After this the remaining battery (in mAh) is same in both the toys, then what percent of the battery is remaining in the toy B?
A. $40 \%$
B. $21.5 \%$
C. $35 \%$
D. $15 \%$
E. None of these
9. Toy $B$ can rotate too and 3 rotations requires as much battery as much required in 1 hand movement and 7 leg movements. Ratio of the number of hand movements, number of leg movements and number of rotations done by toy $B$ till battery lasts is $2: 1: 1$, then sum of the number of hand movements and number of rotations done by toy $B$ is
A. 1400
B. 2800
C. 5600
D. 3500
E. None of these
10. The battery capacity of toy $D$ is equal to the average of the current remaining battery capacities of Toys $A$ and $B$ and the current battery percentage of toy $D$ is $75 \%$. If toy $D$ moves an equal number of hands and feet until the battery runs out, then how many times does toy $D$ move hands?
A. 2175
B. 1160
C. 870
D. 2900
E. None of these

Direction (11 - 15) : Study the following table and information given below and answer the given questions.
In the below table, total number of applications received for five positions $A, B, C, D$ and $E$ is given.

| Position | Total no. of applications received |
| :---: | :---: |
| A | 1040 |
| B | 880 |
| C | 600 |
| D | - |
| E | 420 |

In the below table, total number of duplicate applicants and average number of duplicate applications received for five positions - A, B, C, D and $E$ is given.

| Position | Duplicate <br> applicants | Average number of duplicate <br> applications received from <br> duplicate applicants |
| :---: | :---: | :---: |
| A | 63 | 4 |
| B | - | 6 |
| C | 28 | - |
| D | 48 | - |
| E | - | - |

Note:
(i) A duplicate applicant is an applicant, who has submitted additional (duplicate) application after submitting their original application.
(ii) All application forms (original + duplicate) received from duplicate applicant were rejected and remaining all application were accepted.
(iii) None of the applicants applied for more than one post.
11. For position $A$, the respective ratio between the number of accepted applications and the number of rejected applications of male is $5: 3$. If the respective ratio between the number of accepted applications and the number of rejected applications of female is $5: 1$, then what is the number of rejected applications of men?
A. 210
B. 285
C. 240
D. 270

## E. 255

12. For position $E$, the number of accepted applications of male, the number of accepted applications of female and total number of rejected applications (male + female) are $X, X+Y$ and $X+2 Y$ respectively, then which of the following is true? (Consider the average number of duplicate applications received from duplicate applicant is a non-zero integer and atleast one male and one female are duplicate applicants). I. Number of accepted applications of male can be 139
II. Number of accepted applications of male can be 141
III. Number of accepted applications of males can be 131
A. Only I is correct
B. Only II is correct
C. Only III is correct
D. Only I and III is correct
E. None of I, II and III is correct
13. If the average number of accepted applications for positions $A$ and $B$ is 659, then what is the number of duplicate applicants for position $B$ ?
A. 41
B. 45
C. 39
D. 37
E. 43
14. For position $C$, the number of accepted applications of males is between 150 and 200 and that of females is between 130 and 180. Which of the following can be a possible value(s) of the average number of duplicate applications submitted by duplicate applicants for position C?
A. 12
B. 5
C. 9
D. 13
E. 6
15. For position $D$, the respective ratio between total number of accepted and total number of rejected applications is 4
: 1 , then which of the following can be true?
I. Total number of applications (original + duplicate) received can be 240
II. Number of applications (all original + one from duplicate) can be 768
III. Least number of applications were received for position $D$ is a possibility.
A. Only II is correct
B. Only III is correct
C. Only II and III is correct
D. Only I and III is correct
E. None of I, II and III is correct

Direction (16 - 18) : Study the following information given below and answer the given questions.
3X women can do a work in Y days. 1.5X men can do the work in $Y$ days. $X$ boys can do the work in $3 Y$ days. 8 men, 8 women and 8 boys together can do the work in 22.5 days. 9 men can do the work in $(Y+20)$ days.
16. 6. Find the value of $Y$.
A. 15
B. 16
C. 18
D. 20
E. None of these
17. Find the value of $X$.
A. 10
B. 8
C. 9
D. 15
E. None of these
18. In how many days, 6 men and 15 boys can complete the one-fourth less work?
A. 15
B. 18
C. 20
D. 24
E. None of these

Direction (19 - 23) : Study the following information and pie-chart to answer the given questions.
Data of voters of a town is given below. The town is divided in 4 zones $-z_{1}, z_{2}, z_{3}$ and $z_{4}$ and each of these zones had
certain number of registered (valid + invalid) voters.
In the pie-chart distribution of valid voters is given.

Valid voters


It is also known that-
a) The ratio between values of degrees of $z_{2}$ and $z_{4}$ in the pie chart is 3:7
b) Number of valid values in $z_{3}$ is onethird more than the difference between the number of valid voters in $z_{1}$ and that in $z_{2}$.
c) Difference between number of valid voters in $z_{3}$ and $z_{4}$ is 480. (Number of valid voters in $Z_{4}$ is more than that in $Z_{3}$ )
d) $20 \%$ of the total registered voters in the town were invalid.
19. What is the central angle corresponding to number of valid voters of zone $z_{3}$ the given pie-chart?
A. $54^{\circ}$
B. $72^{\circ}$
C. $90^{\circ}$
D. $108^{\circ}$
E. None of these
20. Number of valid voters in zone $z_{3}$ is approximate what percent less than number of valid voters in zone $z_{4}$ ?
A. $45 \%$
B. $40 \%$
C. $37.5 \%$
D. $42.5 \%$
E. $35 \%$
21. If number of invalid voters in zone $z_{1}$ is 120 , then the total number of registered voters in the zone $z_{1}$ is
A. 840
B. 900
C. 960
D. 1080
E. None of these
22. Number of invalid voters in the zone $z_{2}$ is 200 and ratio of number of registered voters in the zone $z_{3}$ and zone $z_{4}$ is $3: 5$, then the total registered voters in zone $z_{4}$ is what percent of the total registered voters in the town? (You may use the information given in above questions.)
A. $25 \%$
B. $30 \%$
C. $35 \%$
D. $40 \%$
E. None of these
23. What is the ratio of sum of valid voters in zones $z_{1}$ and $z_{3}$ and that in zones $\mathrm{z}_{2}$ and $\mathrm{z}_{4}$ ?
A. $2: 3$
B. $3: 2$
C. $9: 8$
D. $8: 9$
E. None of these

Direction (24 - 26) : Study the following graph and answer the given questions.
There are 3 classes A, B and C in a school. Data of number of girls and number of boys are given in the table.
Some of the data of the table are missing. You have to find the data, wherever required on the basis of the information given below.

| Class | A | B | C |
| :---: | :---: | :---: | :---: |
| Boys | 40 | - | - |
| Girls | - | 40 | 30 |

It is also given that-
a) Probability of selecting a boy from all the students of the school is $\frac{3}{5}$.
b) Probability of selecting a boy from class $B$ is equal to the probability of selecting a boy from class C
c) Probability of selecting a girl from class A from all the girls of the school is $\frac{5}{12}$.
24. What is the probability of selecting 2 boys such that none of the boys study in class C?
A. $\frac{119}{299}$
B. $\frac{2}{5}$
C. $\frac{238}{1495}$
D. $\frac{238}{299}$
E. None of these
25. If $20 \%$ of girls from class A and $10 \%$ of boys from class $B$ scored more than $90 \%$ in the exam, then what is the difference of the number of girls from class A, who scored less than $90 \%$ in the exam and the number of boys from class B, who scored less than $90 \%$ in the exam?
A. 24
B. 32
C. 36
D. 48
E. None of these
26. What is the ratio of probability of selecting 1 boy from class $C$ from all boys and selecting 1 girl from all students of class A?
A. $3: 2$
B. $2: 3$
C. $5: 3$
D. $3: 5$
E. None of these

In the following question, 2 series $1^{\text {st }}$ and $2^{\text {nd }}$ is given. $1^{\text {st }}$ series is a wrong number series and $2^{\text {nd }}$ series is a blank series. Pattern of the $2^{\text {nd }}$ series is same as the $1^{\text {st }}$ series and $2^{\text {nd }}$ series will start with the wrong term of the $1^{\text {st }}$ series.
27. $1^{\text {st }}$ series: $1,3,6,21,88,445,2676$
$2^{\text {nd }}$ series: -, -, -, -, -, -, -
Find the $4^{\text {th }}$ term of $2^{\text {nd }}$ series.
A. 30
B. 33
C. 27
D. 25
E. 36

Direction (28 - 30) : Study the following information and answer the given questions.
There are some students (female + male) in classes $A$ and $B$. In class $A$, number of female students is $30 \%$ of the total
number of student. In class $B$, number of female students is same as male students. Number of male students in class $B$ is 3 times the number of female students in class A
28. Number of male students in class $A$ is how much percent of the total number of student in classes $A$ and $B$ together?
A. $20 \%$
B. $25 \%$
C. $30 \%$
D. Cannot be determined
E. None of these
29. Number of male students in classes $A$ and $B$ together is approximate how much percent of female students in class $B$ ?
A. $177 \%$
B. $150 \%$
C. $137 \%$
D. Cannot be determined
E. None of these
30. Number male students in a class $C$ is 36 more than that in class $B$ and number female students in a class $C$ is 72 more than that in class A. If number of female students in a class $C$ is $50 \%$ of the number male students in a class $C$, then what is the ratio of total number of students in class $A$ and that in class $C$ ?
A. $2: 3$
B. $5: 9$
C. $3: 5$
D. $4: 9$
E. None of these

Direction (31 - 35) : Study the following bar graphs and answer the given.
In the bar graphs, percentage of the target sales achieved for three products $\mathrm{X}, \mathrm{Y}$ and Z by three companies $\mathrm{P}, \mathrm{Q}$ and $R$ is given.


In the bar graphs, target sales of three products $\mathrm{X}, \mathrm{Y}$ and Z by three companies $P, Q$ and $R$ is given.

31. Find the sum of the average achieved sales of all three products together by company Q and company R .
A. 8860
B. 7950
C. 7810
D. 9290
E. None of these
32. Find the difference between the total achieved sales of Products $Y$ by all three Companies \& total target sales of Products $Z$ by the same companies.
A. 6890
B. 7480
C. 7260
D. 8240
E. None of these
33. Find the ratio of achieved sales of products $X \& Z$ together by Company $Q$ to the Unachieved sales of products $Y \& Z$ together by company R .
A. $293: 152$
B. $331: 213$
C. $419: 382$
D. $251: 129$
E. None of these
34. Achieved sales of product Z by company R is how much \% less/more than Achieved sales of products Y by Company P?
A. $6.80 \%$ more
B. $7.75 \%$ less
C. $6.25 \%$ more
D. $8.60 \%$ less
E. None of these
35. Company Q marked the price of per unit Product $X, Y \& Z$ in the ratio $3: 4$ : 2. For product $Y$, how much percent more/less revenue received than for product $X$ by the company?
A. $18.6 \%$ less
B. 27.4 \% more
C. 23.2 \% less
D. 14.8 \% More
E. None of these

1. Ans. A.

Required ratio $=(3000+7000):(7000$ $+8000)=2: 3$.
Total number of orders $=$ Number of orders delivered 100
Percentage of orders delivered out of the total orders Number of order cancel $=$ Total number of ordered - Number of orders delivered Total number of orders returned $=$ Number of orders delivered $\times$ 100
Percentage of orders returned

| Month | Total <br> No. of <br> order | No. of <br> order <br> delivered | No. of <br> order <br> canceled | No. of <br> order <br> returned | No. of <br> order <br> finally <br> accepted |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 30000 | 27000 | 3000 | 8100 | 18900 |
| February | 30000 | 24000 | 6000 | 10800 | 13200 |
| March | 28000 | 21000 | 7000 | 10080 | 10920 |
| April | 22500 | 21600 | 900 | 10800 | 10800 |
| May | 40000 | 24000 | 16000 | 5760 | 18240 |
| June | 40000 | 32000 | 8000 | 11200 | 20800 |

2. Ans. E.

Required average =
$30000+30000+28000+22500+40000+40000$ 6
$=31750$.
Total number of orders $=$ Number of orders delivered $\times$ 100
Percentage of orders delivered out of the total orders Number of order cancel $=$ Total number of ordered - Number of orders delivered Total number of orders returned $=$ Number of orders delivered $\times$ 100
Percentage of orders returned

| Month | Total <br> No. of <br> order | No. of <br> order <br> delivered | No. of <br> order <br> canceled | No. of <br> order <br> returned | No. of <br> order <br> finally <br> accepted |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 30000 | 27000 | 3000 | 8100 | 18900 |
| February | 30000 | 24000 | 6000 | 10800 | 13200 |
| March | 28000 | 21000 | 7000 | 10080 | 10920 |
| April | 22500 | 21600 | 900 | 10800 | 10800 |
| May | 40000 | 24000 | 16000 | 5760 | 18240 |
| June | 40000 | 32000 | 8000 | 11200 | 20800 |

3. Ans. D.

Required difference $=16000-5760=$ 10240.

Total number of orders $=$ Number of orders delivered $\times$ 100

Percentage of orders delivered out of the total orders

Number of order cancel $=$ Total number of ordered - Number of orders delivered Total number of orders returned $=$ Number of orders delivered $\times$ 100
Percentage of orders returned

| Month | Total <br> No. of <br> order | No. of <br> order <br> delivered | No. of <br> order <br> canceled | No. of <br> order <br> returned | No. of <br> order <br> finally <br> accepted |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 30000 | 27000 | 3000 | 8100 | 18900 |
| February | 30000 | 24000 | 6000 | 10800 | 13200 |
| March | 28000 | 21000 | 7000 | 10080 | 10920 |
| April | 22500 | 21600 | 900 | 10800 | 10800 |
| May | 40000 | 24000 | 16000 | 5760 | 18240 |
| June | 40000 | 32000 | 8000 | 11200 | 20800 |

4. Ans. C.
Required percent $=\frac{6000-900}{6000} \times 100=$
$85 \%$.

| Total number of orders $=$ Number of |
| :--- |
| orders |
| delivered |
| 100 |

$\times$

Percentage of orders delivered out of the total orders Number of order cancel $=$ Total number of ordered - Number of orders delivered Total number of orders returned $=$ Number of orders delivered $\times$

Percentage of orders returned

| Month | Total <br> No. of <br> order | No. of <br> order <br> delivered | No. of <br> order <br> canceled | No. of <br> order <br> returned | No. of <br> order <br> finally <br> accepted |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 30000 | 27000 | 3000 | 8100 | 18900 |
| February | 30000 | 24000 | 6000 | 10800 | 13200 |
| March | 28000 | 21000 | 7000 | 10080 | 10920 |
| April | 22500 | 21600 | 900 | 10800 | 10800 |
| May | 40000 | 24000 | 16000 | 5760 | 18240 |
| June | 40000 | 32000 | 8000 | 11200 | 20800 |

5. Ans. B.

Required sum $=13200+10800=$ 24000.

Total number of orders $=$ Number of orders delivered $\times$ 100
Percentage of orders delivered out of the total orders Number of order cancel $=$ Total number of ordered - Number of orders delivered Total number of orders returned $=$ Number of orders delivered $\times$ 100

Percentage of orders returned

| Month | Total <br> No. of <br> order | No. of <br> order <br> delivered | No. of <br> order <br> canceled | No. of <br> order <br> returned | No. of <br> order <br> finally <br> accepted |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 30000 | 27000 | 3000 | 8100 | 18900 |
| February | 30000 | 24000 | 6000 | 10800 | 13200 |
| March | 28000 | 21000 | 7000 | 10080 | 10920 |
| April | 22500 | 21600 | 900 | 10800 | 10800 |
| May | 40000 | 24000 | 16000 | 5760 | 18240 |
| June | 40000 | 32000 | 8000 | 11200 | 20800 |

6. Ans. B.

Let the number of leg movements $=\mathrm{x}$, then
$(x+1200) \times 0.1+x \times 0.2=1200$
$\Rightarrow 0.3 x+120=1200$
$\Rightarrow 0.3 \mathrm{x}=1080$
$\Rightarrow x=3600$
Hence, on average how many leg movements done by toy A in 1 minute $=$ Total number of leg movements/240 (in 9 AM to $11 \mathrm{AM}=2$ hours $=240$ minutes) $=3600 / 240=15$.

| Toy | A | B | C |
| :--- | :---: | :---: | :---: |
| Capacity (mAh) | 1500 | 1600 | 1800 |
| Present capacity (mAh) | 1200 | 1120 | 135 |

Let the battery consume by 1 hand movement be h mAh and 1 leg movement be I mAh, then
$4 h+31=1 \ldots$ (i)
$6 h+7 l=2 \ldots$ (ii)
On solving equations (i) and (ii), we get
$\mathrm{h}=0.1$ and $\mathrm{I}=0.2$
7. Ans. C.

Let the number of hand movements $=\mathrm{a}$
and number of leg movements $=b$
$a \times 0.1+b \times 0.2=1120$
$\Rightarrow a+2 b=11200$... (i)
Given,
$2 \mathrm{a}+\mathrm{b}=\mathrm{x} .$. (ii)
On adding equations (i) and (ii), we get

$$
\frac{(11200+x)}{3}
$$

$\mathrm{a}+\mathrm{b}=$
For $(\mathrm{a}+\mathrm{b})$ to be integer, $(11200+\mathrm{x})$ must be divisible by 3
I. When $\mathrm{x}=9000$, then $(11200+\mathrm{x})=$ $11200+9000=20200$, which is not divisible by 3
II. When $x=12600$, then $(11200+x)=$ $11200+12600=23800$, which is not divisible by 3
III. When $x=9800$, then $(11200+x)=$ $11200+9800=21000$, which is divisible by 3
Hence, only statement III is true.

| Toy | A | B | C |
| :--- | :---: | :---: | :---: |
| Capacity (mAh) | 1500 | 1600 | 1800 |
| Present capacity (mAh) | 1200 | 1120 | 135 |

Let the battery consume by 1 hand movement be h mAh and 1 leg movement be I mAh, then
$4 h+3 l=1 \ldots$ (i)
$6 h+7 l=2 \ldots$ (ii)
On solving equations (i) and (ii), we get
$\mathrm{h}=0.1$ and $\mathrm{I}=0.2$
8. Ans. D.

Let the remaining battery capacity of each of the batteries $B$ and $C=x$ mAh, then
$1500 \times 0.1+y \times 0.2=(1350-x)$
$\Rightarrow 150+0.2 y=1350-x$
$\Rightarrow 0.2 \mathrm{y}=1200-\mathrm{x}$
$\Rightarrow y=6000-5 x$
Also given
$y \times 0.1+2000 \times 0.2=(1120-x)$
$\Rightarrow(6000-5 x) \times 0.1+400=(1120-x)$
$\Rightarrow 600-0.5 x+400=1120-x$
$\Rightarrow 0.5 x=1120-(600+400)=120$
$\Rightarrow x=240$
Hence, the required percentage $=\frac{240}{1600} \times$
$100=15 \%$.

| Toy | A | B | C |
| :--- | :---: | :---: | :---: |
| Capacity (mAh) | 1500 | 1600 | 1800 |
| Present capacity (mAh) | 1200 | 1120 | 135 |

Let the battery consume by 1 hand movement be h mAh and 1 leg movement be I mAh, then
$4 h+3 l=1 \ldots$ (i)
$6 h+7 l=2 \ldots$ (ii)
On solving equations (i) and (ii), we get $h=0.1$ and $I=0.2$
9. Ans. E.

Let the number of rotations done by toy $B=x$ and battery consume by 1 rotation $=r m A h$, then
$3 r=h+7 l=0.1+7 \times 0.2=0.1+1.4$
$=1.5$
$\Rightarrow r=\frac{1.5}{3}=0.5$
According to question
$2 x \times 0.1+x \times 0.1+x \times 0.5=1120$
$\Rightarrow 0.2 x+0.1 x+0.5 x=1120$
$\Rightarrow 0.8 x=1120$
$\Rightarrow x=1400$

Hence, the required sum $=2 x+x=3 x$ $=4200$.

| Toy | A | B | C |
| :--- | :---: | :---: | :---: |
| Capacity (mAh) | 1500 | 1600 | 1800 |
| Present capacity (mAh) | 1200 | 1120 | 135 |

Let the battery consume by 1 hand movement be h mAh and 1 leg movement be I mAh, then
$4 h+3 l=1 \ldots$ (i)
$6 h+7 l=2 \ldots$ (ii)
On solving equations (i) and (ii), we get $\mathrm{h}=0.1$ and $\mathrm{I}=0.2$
10. Ans. D.

Battery capacity of toy $D=\frac{\frac{1200+1120}{2}}{2}=$ 1160 mAh
Let the number of hand movements done by toy $D=x$, then
$x \times 0.1+x \times 0.2=75 \%$ of 1160
$\Rightarrow 0.3 x=870$
$\Rightarrow x=2900$
Hence, the number of hand movements done by toy $D=x=2900$.

| Toy | A | B | C |
| :--- | :---: | :---: | :---: |
| Capacity (mAh) | 1500 | 1600 | 1800 |
| Present capacity (mAh) | 1200 | 1120 | 135 |

Let the battery consume by 1 hand movement be h mAh and 1 leg movement be I mAh, then
$4 h+3 l=1 \ldots$ (i)
$6 h+7 l=2 \ldots$ (ii)
On solving equations (i) and (ii), we get
$\mathrm{h}=0.1$ and $\mathrm{I}=0.2$
11. Ans. E.

Number of duplicate male applicants $=x$ and number of duplicate female applicants $=y$, then
Number of rejected applications of male applicants $=(4+1) x=5 x$
Number of accepted applications of male
applicants $=\frac{5}{3} \times 5 x=\frac{\frac{25 x}{3}}{}$
Number of rejected applications of female
applicants $=(4+1) y=5 y$
Number of accepted applications of $\frac{5}{1}$
female applicants $=1 \times 5 y=25 y$
According to question,
$x+y=63 \ldots$ (i)
And

25x
$3+25 y=1040-63 \times 5=725$
$\Rightarrow x+3 y=87 \ldots$ (ii)
On solving, we get
$x=51$
Hence, answer $=5 x=51 \times 5=255$.
12. Ans. A.

For position $E$, average number of applications received from a duplicate applicant $=\mathrm{D}$, then
$X+(X+Y)+(X+2 Y)=420$
$\Rightarrow X+Y=140$
If statement $I$ is true, then $X=139$
$\Rightarrow Y=140-X=140-139=1$
Number of rejected applications of (male

+ female) applicants $=X+2 Y=139+2$
$=141=47 \times 3$
So, this case is possible.
(No. of duplicate applicants $=47$ and average no. of duplicate application per duplicate applicant $=3-1=2$ )
If statement II is true, then $X=141$
$\Rightarrow Y=140-X=140-141=-1$
Number of rejected applications of (male + female) applicants $=X+2 Y=139-2$ $=137=137 \times 1$ (Prime number)
So, this case is not possible, because there should be atleast 2 duplicate applicants, then no. of duplicate applicants $=137$ and average no. of duplicate application per duplicate applicant $=1$ (which is not possible)
If statement III is true, then $X=131$
$\Rightarrow Y=140-X=140-131=9$
Number of rejected applications of (male + female) applicants $=X+2 Y=131+2$ $\times 9=149=149 \times 1$ (Prime number)
So, this case is not possible, because there should be atleast 2 duplicate applicants, then no. of duplicate applicants $=149$ and average no. of duplicate application per duplicate applicant $=1$ (which is not possible)
Hence, only statement I is correct.

13. Ans. A.

Total number of applications for positions $A$ and $B=1040+880=1920$
Total number of accepted applications for positions $A$ and $B=659 \times 2=1318$
Total number of rejected applications for positions $A$ and $B=1920-1318=602$
Let the number of duplicate applicants for position $B=x$, then

According to question
$63 \times(4+1)+x \times(6+1)=602$
$\Rightarrow 315+7 x=602$
$\Rightarrow 7 x=602-315=287$
$\Rightarrow x=\frac{\frac{287}{7}}{7}=41$.
Hence, answer $=x=41$.
14. Ans. C.

Let the average number of duplicate applications submitted by duplicate applicants for position $C=x$, then
Total number of duplicate applications for position $C=28 \times(x+1)$
Total number of accepted application for position $C$ is between $150+130=280$ and $200+180=380$
So, $(600-380)<28 \times(x+1)<(600-$ 280)
$\Rightarrow 220<28 \times(x+1)<320$
$\Rightarrow \frac{220}{28}<(x+1)<\frac{320}{28}$
$\Rightarrow \frac{55}{7}-1<(x+1)<\frac{80}{7}-1$
$\Rightarrow \frac{48}{7}<x<\frac{73}{7}$
$\Rightarrow\left(6+{ }^{\frac{6}{7}}\right)<x<\left(10+\frac{3}{7}\right)$
$\Rightarrow 7 \hat{A} \times \hat{A} 10$
Hence, the possible value of $x=10$.
15. Ans. C.

Let a duplicate applicant has sent an average x application, then
Total rejected applications $=48 x$
Total accepted application $=5 \times 48 x=$ 240x
Total applications received $=48 x+240 x$ = 288x
Total number of applications (original + duplicate) received can be only multiple of 288 , so it cannot be 240
Therefore, statement I is correct
Number of applications (all original + one from duplicate) can be $(240 x+48)$ i.e. 288, 528, 768 and so on.
So, statement II is correct.
Total applications received $=48 x+240 x$ $=288 x$ i.e. $288,576,864$ and so on.
So, least number of applications received for position $D$ can be 288, which is the least among the total number of applications received for all 5 positions.
Therefore, statement III is correct.
16. Ans. D.

Hence, $Y=20$
Let the efficiencies of a man, a woman
and a boy be $m, w$ and $b$, then
Total work $=3 X w Y=1.5 \mathrm{XmY}=3 \mathrm{XbY}$
$\Rightarrow 2 \mathrm{w}=\mathrm{m}=2 \mathrm{~b}$
Also given
Total work $=8(m+w+b) \times 22.5=9 m$
$\times(Y+20)$
$\Rightarrow 8\left(m+\frac{\frac{m}{2}}{\frac{m}{2}}\right) \times 22.5=9 m \times(Y+20)$
$\Rightarrow 8 \times 2 \mathrm{~m} \times 22.5=9 \mathrm{~m} \times(\mathrm{Y}+20)$
$\Rightarrow 40=(Y+20)$
$\Rightarrow Y=20$
17. Ans. B.

Total work $=1.5 \mathrm{XmY}=9 \mathrm{~m} \times(\mathrm{Y}+20)$
$\Rightarrow X Y=4(Y+20)$
$\Rightarrow 20 X=160$
$\Rightarrow X=8$
Hence, the value of $X=8$.
Let the efficiencies of a man, a woman and a boy be $m, w$ and $b$, then
Total work $=3 X w Y=1.5 \mathrm{XmY}=3 \mathrm{XbY}$
$\Rightarrow 2 \mathrm{w}=\mathrm{m}=2 \mathrm{~b}$
Also given
Total work $=8(\mathrm{~m}+\mathrm{w}+\mathrm{b}) \times 22.5=9 \mathrm{~m}$
$\times(Y+20)$
$\Rightarrow 8\left(\mathrm{~m}+\frac{\overline{2}}{}+\frac{\bar{m}}{2}\right) \times 22.5=9 \mathrm{~m} \times(\mathrm{Y}+20)$
$\Rightarrow 8 \times 2 \mathrm{~m} \times 22.5=9 \mathrm{~m} \times(\mathrm{Y}+20)$
$\Rightarrow 40=(Y+20)$
$\Rightarrow Y=20$
18. Ans. C.

Let required number of days $=T$
Total work $=8(m+w+b) \times 22.5=$ $180(2 b+b+b)=720 b$
According to question

$$
\underline{1}
$$

$720 b \times(1-4)=(6 m+15 b) \times T$
$\Rightarrow 540 \mathrm{~b}=27 \mathrm{~b} \times \mathrm{T}$
$\Rightarrow \mathrm{T}=20$
Hence, the answer = T = 20.
Let the efficiencies of a man, a woman and $a$ boy be $m, w$ and $b$, then
Total work $=3 X w Y=1.5 \mathrm{XmY}=3 \mathrm{XbY}$
$\Rightarrow 2 \mathrm{w}=\mathrm{m}=2 \mathrm{~b}$
Also given
Total work $=8(m+w+b) \times 22.5=9 m$
$\times(Y+20)$
$\Rightarrow 8\left(m+\frac{\frac{m}{2}}{\frac{m}{2}}\right) \times 22.5=9 m \times(Y+20)$
$\Rightarrow 8 \times 2 \mathrm{~m} \times 22.5=9 \mathrm{~m} \times(\mathrm{Y}+20)$

START FREE TRIAL
$\Rightarrow 40=(Y+20)$
$\Rightarrow Y=20$
19. Ans. B.

Required central angle $=(144-4 x)^{\circ}=$ $(144-72)^{\circ}=72^{\circ}$
Let $z_{2}=3 x^{\circ}$ and $z_{4}=7 x^{\circ}$
Also given that $z_{3}=\frac{\frac{4}{3}}{3} \times(108-3 x)^{\circ}=$
(144-4x) ${ }^{\circ}$
$\mathrm{Z}_{1}+\mathrm{Z}_{2}+\mathrm{Z}_{3}+\mathrm{Z}_{4}=360^{\circ}$
$\Rightarrow 108^{\circ}+3 x^{\circ}+(144-4 x)^{\circ}+7 x^{\circ}=360^{\circ}$
$\Rightarrow 252^{\circ}+6 x^{\circ}=360^{\circ}$
$\Rightarrow x=18$
20. Ans. D.

Required percentage $=\frac{7 x^{\circ}-(144-4 x)^{\circ}}{7 x^{\circ}} \times$
$100=\frac{126^{\circ}-72^{\circ}}{126^{\circ}} \times 100=42.85 \% \hat{A}$
42.5\%.

Let $z_{2}=3 x^{\circ}$ and $z_{4}=7 x^{\circ}$
Also given that $z_{3}=\frac{\frac{4}{3}}{3} \times(108-3 x)^{\circ}=$ $(144-4 x)^{\circ}$
$z_{1}+z_{2}+z_{3}+z_{4}=360^{\circ}$
$\Rightarrow 108^{\circ}+3 x^{\circ}+(144-4 x)^{\circ}+7 x^{\circ}=360^{\circ}$
$\Rightarrow 252^{\circ}+6 x^{\circ}=360^{\circ}$
$\Rightarrow x=18$
21. Ans. D.

Given $7 x^{\circ}-(144-4 x)^{\circ}=480$ voters
$\Rightarrow 11 x^{\circ}-144^{\circ}=480$ voters
$\Rightarrow 198^{\circ}-144^{\circ}=480$ voters
$\Rightarrow 9^{\circ}=80$ voters
Number of invalid voters in zone $\mathrm{z}_{1}=$ $108^{\circ}=960$ voters
Hence, the total number of registered voters in the zone $z_{1}=960+120=1080$.
Let $z_{2}=3 x^{\circ}$ and $z_{4}=7 x^{\circ}$
Also given that $z_{3}=\frac{\frac{4}{3}}{3} \times(108-3 x)^{\circ}=$ $(144-4 x)^{\circ}$
$z_{1}+z_{2}+z_{3}+z_{4}=360^{\circ}$
$\Rightarrow 108^{\circ}+3 x^{\circ}+(144-4 x)^{\circ}+7 x^{\circ}=360^{\circ}$
$\Rightarrow 252^{\circ}+6 x^{\circ}=360^{\circ}$
$\Rightarrow x=18$
22. Ans. C.

Total number of valid voters in the town

$$
=\frac{\frac{80}{9^{\circ}}}{} \times 360^{\circ}=3200
$$

Total number of invalid voters in the town 3200
$=80 \times 20=800$

Number of invalid voters zone $z_{1}=120^{\circ}$ Let number of registered voters in zone $z_{3}$ and $z_{4}$ be 3 a and $5 a$, then
Total number of invalid voters in zones $z_{1}$, $z_{2}, z_{3}$ and $z_{4}=$ Total number of invalid voters in the town
$120+200+(3 a-8 \times 80)+(5 a-14 \times$
80) $=800$
$\Rightarrow 8 \mathrm{a}-1440=800$
$\Rightarrow a=280$
Hence, required percentage = $\frac{5 a}{3200+800} \times 100=\frac{1400}{4000} \times 100=35 \%$.
Let $z_{2}=3 x^{\circ}$ and $z_{4}=7 x^{\circ}$
Also given that $z_{3}=\frac{\frac{4}{3}}{3} \times(108-3 x)^{\circ}=$ $(144-4 x)^{\circ}$
$z_{1}+z_{2}+z_{3}+z_{4}=360^{\circ}$
$\Rightarrow 108^{\circ}+3 x^{\circ}+(144-4 x)^{\circ}+7 x^{\circ}=360^{\circ}$
$\Rightarrow 252^{\circ}+6 x^{\circ}=360^{\circ}$
$\Rightarrow \mathrm{x}=18$
23. Ans. E.

Required ratio $=[108+(144-4 x)]^{\circ}$ :
$[3 x+7 x]^{\circ}=(252-72): 180=180:$
$180=1: 1$.
Let $z_{2}=3 x^{\circ}$ and $z_{4}=7 x^{\circ}$
Also given that $z_{3}=\frac{4}{3} \times(108-3 x)^{\circ}=$ $(144-4 x)^{\circ}$
$z_{1}+z_{2}+z_{3}+z_{4}=360^{\circ}$
$\Rightarrow 108^{\circ}+3 x^{\circ}+(144-4 x)^{\circ}+7 x^{\circ}=360^{\circ}$
$\Rightarrow 252^{\circ}+6 x^{\circ}=360^{\circ}$
$\Rightarrow x=18$
24. Ans. C.

Required probability =
 $120 \times 119 \quad 238$
$300 \times 299=1495$.
Let the number of girls in class $A=x$, number of boys in class $B=b$ and number of boys in class $C=c$, then
It is given that,
The probability of selecting a girl from class A from all the girls of the school = $\frac{5}{12}$
$\Rightarrow \frac{x}{(x+40+30)}=\frac{5}{12}$
$\Rightarrow \mathrm{x}=50$

Probability of selecting a boy from all the
students of the school $=\frac{3}{5}$
$\frac{40+b+c}{(40+b+c+50+40+30)}=\frac{3}{5}$
$\Rightarrow \frac{40+b+c}{(50+40+30)}=\frac{3}{2}$
$\Rightarrow \mathrm{b}=180-40-\mathrm{c}=140-\mathrm{c}$
Probability of selecting a boy from class $B$
$=$ Probability of selecting a boy from class C
$\frac{b}{(b+40)}=\frac{c}{(c+30)}$
$\Rightarrow b c+30 b=b c+40 c$
$\Rightarrow 30 b=40 c$
$\Rightarrow 3 b=4 \mathrm{c}$
$\Rightarrow 3(140-c)=4 c$
$\Rightarrow c=60$ and $b=140-c=140-60=$ 80

| Class | A | B | C |
| :--- | :---: | :---: | :---: |
| Boys | 40 | 80 | 60 |
| Girls | 50 | 40 | 30 |

25. Ans. B.

Required difference $=90 \%$ of $80-80 \%$ of $50=72-40=32$.
Let the number of girls in class $A=x$, number of boys in class $B=b$ and number of boys in class $C=c$, then
It is given that,
The probability of selecting a girl from class A from all the girls of the school = $\frac{5}{12}$
$\Rightarrow \frac{x}{(x+40+30)}=\frac{5}{12}$
$\Rightarrow \mathrm{x}=50$
Probability of selecting a boy from all the
students of the school $=\frac{3}{5}$
$\frac{40+b+c}{(40+b+c+50+40+30)}=\frac{3}{5}$
$\Rightarrow \frac{40+b+c}{(50+40+30)}=\frac{3}{2}$
$\Rightarrow b=180-40-c=140-c$
Probability of selecting a boy from class B
$=$ Probability of selecting a boy from class C
$\frac{b}{(b+40)}=\frac{c}{(c+30)}$
$\Rightarrow b c+30 b=b c+40 c$
$\Rightarrow 30 b=40 c$
$\Rightarrow 3 b=4 c$
$\Rightarrow 3(140-c)=4 c$
$\Rightarrow c=60$ and $b=140-c=140-60=$ 80

| Class | A | B | C |
| :---: | :---: | :---: | :---: |
| Boys | 40 | 80 | 60 |
| Girls | 50 | 40 | 30 |

26. Ans. D.


Let the number of girls in class $A=x$, number of boys in class $B=b$ and number of boys in class $C=c$, then
It is given that,
The probability of selecting a girl from class A from all the girls of the school = $\frac{5}{12}$
$\Rightarrow \frac{\mathrm{x}}{(\mathrm{x}+40+30)}=\frac{5}{12}$
$\Rightarrow x=50$
Probability of selecting a boy from all the students of the school $=\frac{3}{5}$
$\frac{40+b+c}{(40+b+c+50+40+30)}=\frac{3}{5}$
$\Rightarrow \frac{40+b+c}{(50+40+30)}=\frac{3}{2}$
$\Rightarrow \mathrm{b}=180-40-\mathrm{c}=140-\mathrm{c}$
Probability of selecting a boy from class B
$=$ Probability of selecting a boy from class C
$\frac{b}{(b+40)}=\frac{c}{(c+30)}$
$\Rightarrow b c+30 b=b c+40 c$
$\Rightarrow 30 b=40 c$
$\Rightarrow 3 b=4 c$
$\Rightarrow 3(140-c)=4 c$
$\Rightarrow c=60$ and $b=140-c=140-60=$ 80

| Class | A | B | C |
| :---: | :---: | :---: | :---: |
| Boys | 40 | 80 | 60 |
| Girls | 50 | 40 | 30 |

27. Ans. C.

The pattern of the $1^{\text {st }}$ series is
$(1+1) \times 1=2$
$(2+1) \times 2=6$
$(6+1) \times 3=21$
$(21+1) \times 4=88$
$(88+1) \times 5=445$
$(445+1) \times 6=2676$
The pattern of the $2^{\text {nd }}$ series is
$(2+1) \times 1=3$
$(3+1) \times 2=8$
$(8+1) \times 3=27$
So, the $2^{\text {nd }}$ series will be
2, 3, 8, 27
Hence, the $4^{\text {th }}$ term of $2^{\text {nd }}$ series $=27$.
28. Ans. B.

Required percent $=\frac{7 x}{(7 x+3 x+9 x+9 x)} \times$ 100 = 25\%.
Let the number female students in class A $=3 x$, then
The number of male students in class $A=$ 3x
$30 \times(100-30)=7 x$
The number of male students in class $B=$ $3 \times 3 x=9 x$
The number of female students in class $B$ $=$ The number of male students in class $B$ $=9 x$

| Class | A | B |
| :---: | :---: | :---: |
| Male <br> students | 7 x | 9 x |
| Female <br> students | 3 x | 9 x |

29. Ans. A.

Required percent $=\frac{7 x+9 x}{9 x} \times 100 \hat{A}$ 177\%.
Let the number female students in class A $=3 x$, then
The number of male students in class $A=$ $\stackrel{3 x}{ }$
$30 \times(100-30)=7 x$
The number of male students in class $B=$ $3 \times 3 x=9 x$
The number of female students in class $B$ $=$ The number of male students in class $B$ $=9 \mathrm{x}$

| Class | A | B |
| :---: | :---: | :---: |
| Male <br> students | 7 x | 9 x |
| Female <br> students | 3 x | 9 x |

30. Ans. A.

Number male students in a class $C=36$ $+9 x$
Number female students in a class $C=72$ $+3 x$
According to question

$$
36+9 x
$$

$72+3 x=2=18+4.5 x$
$\Rightarrow 1.5 x=54$
$\Rightarrow x=36$
Hence, the required ratio $=(7 x+3 x)$ :
$(36+9 x+72+3 x)=10 x:(12 x+36$
$\times 3)=10 x:(12 x+3 x)=10 x: 15 x=2$
: 3.
Let the number female students in class A $=3 x$, then
The number of male students in class $A=$ 3 x
$30 \times(100-30)=7 x$
The number of male students in class $B=$ $3 \times 3 x=9 x$
The number of female students in class $B$ $=$ The number of male students in class $B$ $=9 x$

| Class | A | B |
| :---: | :---: | :---: |
| Male <br> students | 7 x | 9 X |
| Female <br> students | 3 x | 9 x |

31. Ans. C.

| PRODUCTS | X |  |  | y |  |  | Z |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COMPANY <br> L | TARGET <br> SALES | ACHIEVED <br> SALES | TARGET <br> SALES | ACHIEVED <br> SALES | TARGET <br> SALES | ACHIEVED <br> SALES |  |  |  |
| P | 8000 | $60 \%$ | 4800 | 5600 | $80 \%$ | 4480 | 6400 | $55 \%$ |  |
| Q | 5000 | $75 \%$ | 3750 | 4800 | $45 \%$ | 2160 | 5600 | $90 \%$ |  |
| R | 7600 | $40 \%$ | 3040 | 7200 | $65 \%$ | 4680 | 6800 | $70 \%$ |  |

the average achieved sales by company $\mathrm{Q}=(3750+2160+5040) / 3=3650$
the average achieved sales by company $\mathrm{R}=(3040+4680+4760) / 3=4160$
required sum $=3650+4160=7810$
32. Ans. B.

| PRODUCTS | X |  |  | y |  |  | Z |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COMPANY | TARGET SALES | $\begin{gathered} \text { ACHIEVED } \\ \text { SALES } \\ \hline \end{gathered}$ |  | TARGET SALES | $\begin{gathered} \hline \text { ACHIEVED } \\ \text { SALES } \\ \hline \end{gathered}$ |  | TARGET SALES | $\begin{gathered} \hline \text { ACHIEVED } \\ \text { SALES } \\ \hline \end{gathered}$ |  |
| P | 8000 | 60\% | 4800 | 5600 | 80\% | 4480 | 6400 | 55\% | 3520 |
| Q | 5000 | 75\% | 3750 | 4800 | 45\% | 2160 | 5600 | 90\% | 5040 |
| R | 7600 | 40\% | 3040 | 7200 | 65\% | 4680 | 6800 | 70\% | 4760 |

Total achieved sales of Products Y by all three Companies,
$=4480+2160+4680$
$=11320$
total target sales of Products $Z$ by all three Companies,
$=6400+5600+6800$
$=18800$

Required difference $=18800-11320=$ 7480
33. Ans. A.

| $\mathrm{PRODUCTS}^{\text {¢ }}$, X |  |  |  | y |  |  | Z |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { COMPANY } \\ & \Omega \end{aligned}$ | TARGET SALES | $\begin{gathered} \text { ACHIEVED } \\ \text { SALES } \\ \hline \end{gathered}$ |  | TARGET SALES | $\begin{array}{\|c} \hline \text { ACHIEVED } \\ \text { SALES } \\ \hline \end{array}$ |  | TARGET SALES | $\begin{gathered} \text { ACHIEVED } \\ \text { SALES } \\ \hline \end{gathered}$ |  |
| P | 8000 | 60\% | 4800 | 5600 | 80\% | 4480 | 6400 | 55\% | 3520 |
| Q | 5000 | 75\% | 3750 | 4800 | 45\% | 2160 | 5600 | 90\% | 5040 |
| R | 7600 | 40\% | 3040 | 7200 | 65\% | 4680 | 6800 | 70\% | 4760 |

achieved sales of products $X \& Z$ together by Company Q,
= 3750+5040
$=8790$
Unachieved sales of products Y \& Z together by company $R$
= total target sales - Total achieved sales
$=(7200+6800)-(4680+4760)$
$=4560$
Required Ratio $=8790: 4560$
= 293: 152
34. Ans. C.

| PRODUCTS | x |  |  | y |  |  | z |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COMPANY <br> 』 | TARGET <br> SALES | ACHIEVED <br> SALES | TARGET <br> SALES | ACHIEVED <br> SALES | TARGET <br> SALES | ACHILVED <br> SALES |  |  |  |
| P | 8000 | $60 \%$ | 4800 | 5600 | $80 \%$ | 4480 | 6400 | $55 \%$ |  |

Achieved sales of product $Z$ by company $\mathrm{R}=4760$

Achieved sales of products Y by Company $\mathrm{P}=4480$
Required $\%=$

$$
\frac{4760-4480}{4480} \times 100=6.25 \%
$$

more
35. Ans. C.

| XRODUCTS |  | X |  |  | y |  |  | Z |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COMPANY <br> R | TARGET <br> SALES | ACHIEVED <br> SALES | TARGET <br> SALES | ACHIEVED <br> SALES | TARGET <br> SALES | ACHIEVED <br> SALES |  |  |  |  |
| P | 8000 | $60 \%$ | 4800 | 5600 | $80 \%$ | 4480 | 6400 | $55 \%$ |  |  |
| Q | 5000 | $75 \%$ | 3750 | 4800 | $45 \%$ | 2160 | 5600 | $90 \%$ |  |  |
| R | 7600 | $40 \%$ | 3040 | 7200 | $65 \%$ | 4680 | 6800 | $70 \%$ |  |  |

Achieved sale of Product $X$ by Company $\mathrm{Q}=3750$
Achieved sale of Product Y by Company Q= 2160
Achieved sale of Product Z by Company Q= 5040
Ratio of received revenue on Products X , $\mathrm{Y}, \mathrm{Z}=3750 \times 3: 2160 \times 4: 5040 \times 2$
= 1125: 864: 1008
Required $\%=$ $\frac{1125-864}{1125} \times 100$
$1125=23.2 \%$
less

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