Target RBI Grade B 2023

Top 150 Questions

Quant

Most Important

Lecture 3 – Data Interpretation

15Q
2022

15 Question / 30

Simplification 2
Basic %
Basic Ratio

- DI based on Pie chart, Bar graph, Line graph, Table graph and Mixed Graph
- DI based on Arithmetic → Profit & Loss, Interest, Time & Work, Time & Distance
- Case let DI

Row form
↓
Convert - Table

Simplification
% Ratio

$\% \rightarrow$ fraction

fraction $\rightarrow \%$

25 minutes

$75\% = \frac{75}{100} \times$ ⟶

Study the following line graph and answer the following questions.

Number of units sold by two different shops (Shop A and Shop B)

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Q1. If shop C sold 30% more units of Computer as compare to shop B and it sold 25% less units of PD as compare to shop A. Find the difference between the units of Computer sold by Shop C and the total units of PD sold by Shop C?
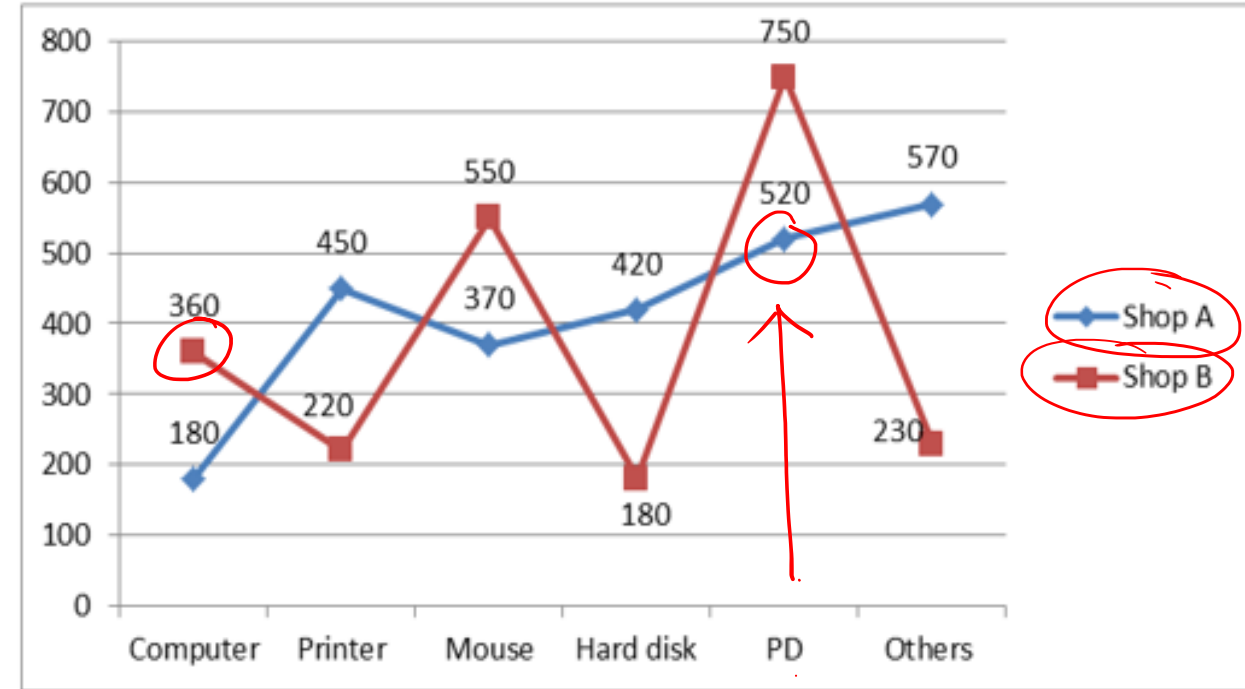
A. 78

B. 79

C. 80

D. 77

E. 76

(Handwritten work:)

PD $\quad$ 130

$\frac{520 \times 75}{100} \quad 3 \atop 4 = 390$

(C) Com

$\frac{360 \times 130}{100}$

$\checkmark$ 468

$468 - 390 = \underline{78}$

Study the following line graph and answer the following questions.

Number of units sold by two different shops (Shop A and Shop B)

EduTap

Q2. Total number of units of Computer, Printer and Hard disk sold by shop B are approximately what % more/less than the total number of units of Mouse, PD and Other sold by shop A?

A. 42%

B. 43%

C. 44%

D. 48%

E. 46%

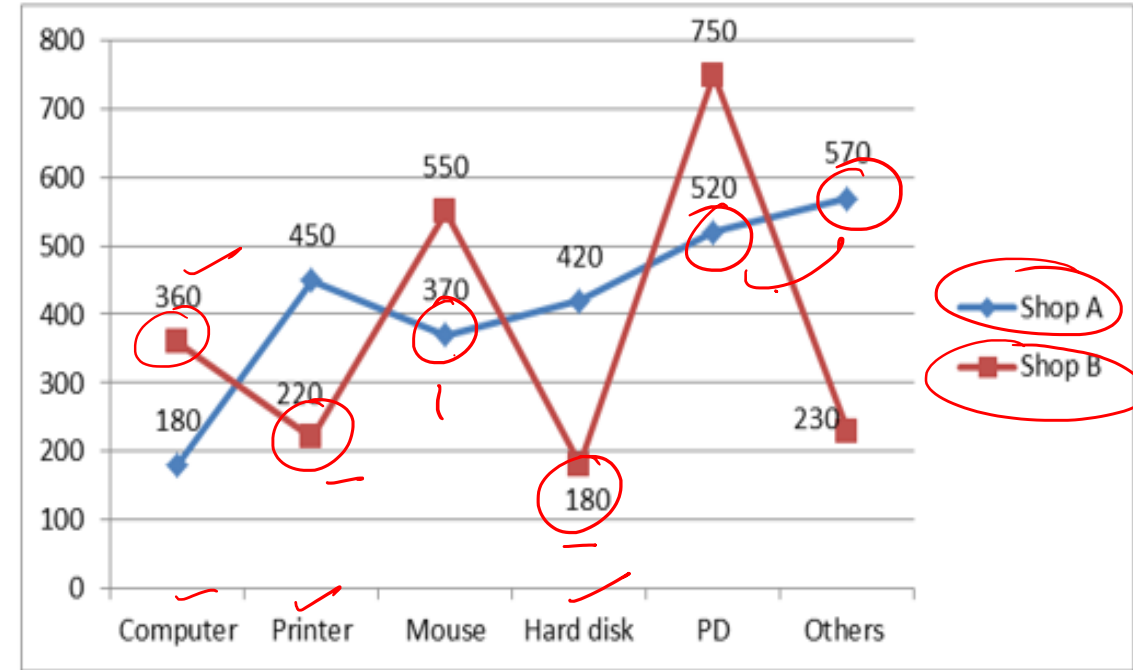*(handwritten annotations)* 760, 1460, 370, 520, 570, 1460, 700, 48, 1460) 70000, 5840, 11600, 11680

Study the table and answer the following questions

Given below is the table which shows the books published and sold by two company X and Y.

Q.3) What is the total no. of books sold in the month of March & April by company X & Y if there is an increment of 20% & 25% in books published by X & Y in April's relative to the previous month respectively?

A. 350

B. 355

C. 340

D. 345

E. 360

	Books Published by Company X	% of books sold	Books published by company Y	% of books sold
Jan	–		25%	–	25%
Feb	–		40%	500	22%
Mar	250	40%	300	35%
April	–300	25%	–375	20%
May	300	–	240	60%

175 + 180
= 355

250 × 20 / 100

25% = 1/4   75

Study the table and answer the following questions

Given below is the table which shows the books published and sold by two company X and Y.

Q.4) If books sold by company X in Feb is equal to books sold by company Y in May. Then, what is total no. of books sold by company X & Y in the month of Feb?

A. 250

B. 252

C. 254

D. 256

E. 258

144
110
‾‾‾‾
254

	Books Published by Company X	% of books sold	Books published by company Y	% of books sold
Jan	–	25%	–	25%
Feb	–	40% = 144	500	22% = 110
Mar	250	40%	300	35%
April	–	25%	–	20%
May	300	–	240	60% 144

Q5. If number of people (male + female) registered on Friday is 20% more than the total number of people (male + female) registered on Monday. If there were 40% female among who registered on Friday then find the number of males who registered on Friday?

A. 700

B. 750

C. 630

D. 1000

E. None of these

DAY	TOTAL PEOPLE (MALE +FEMALE) WHO REGISTRED FOR SEMINAR	RATIO OF MALE & FEMALE OUT OF TOTAL PEOPLE WHO REGISTRED FOR SEMINAR	% OF PEOPLE (OUT OF TOTAL MALE + FEMALE REGISTRED) WHO ATTENDED SEMINAR
MONDAY	875	4 :3	80%
TUESDAY	1250	12:13	70%
WEDNESDAY	1100	3: 8	50%
THURSDAY	1500	3 :2	60%

Friday 175

$875 \times \dfrac{120}{100} = 1050$

F 40%   M 60%

$\dfrac{6F}{10F} \times 105F$

$= 630$

Q6. Find difference between the total number of people registered on Tuesday & Wednesday and total number of people attended on Monday & Thursday.

A. 700

B. 750

C. 630

D. 1000

E. None of these

DAY	TOTAL PEOPLE (MALE +FEMALE) WHO REGISTRED FOR SEMINAR	RATIO OF MALE & FEMALE OUT OF TOTAL PEOPLE WHO REGISTRED FOR SEMINAR	% OF PEOPLE (OUT OF TOTAL MALE + FEMALE REGISTRED) WHO ATTENDED SEMINAR
MONDAY	875	4 :3	80%
TUESDAY	1250	12:13	70%
WEDNESDAY	1100	3: 8	50%
THURSDAY	1500	3 :2	60%

$2350 - 1600$

$= 750$

$$875 \times \frac{4}{8} = 700$$

$$1500 \times \frac{3}{8} = 900$$

1600

Data regarding the number of Doctors(D) and Engineers(E) in three colleges - A, B and C is given.

College A: Ratio of male doctors and male engineers is 12 : 5 and the difference between them is 280. Total number of female doctors and female engineers is 300. Number of male engineers is 30 more than that of the number of female engineers.

College B: Sum of the number of male doctors and male engineers is equal to the sum of the number of female doctors and female engineers in college A. Ratio of the male doctors and male engineers together and female doctors and female engineers together is 6 : 7. Ratio of female doctors and female engineers is 2 : 3. Number of male doctors in college B is 1/3rd of the number of male engineers in college C.

College C: Male engineers is 1.5 times the number of female doctors. Sum of the number of female doctors and female engineers is 550. Number of female engineers is 70 more than the number of female doctors. Total number of male doctors and male engineers is 760.

	Doctor	Engineers
A	M 480	M 200
	F 130	F 170
B	M 120	M 180
	F 140	F 210
C	M 400	M 360
	F 240	F 310

1430

$M_D + M_E \in 300$

$\frac{1}{3} M_E (c)$

$\frac{1}{3} \times 360 = 120$

$M_D + M_E = F_D + F_E$

$6 : 7$

$\frac{6 \times 50}{300}$ $\frac{7 \times 50}{350}$

$2 : 3$

$140 \quad 210 \quad 5 = 350$

$1 = 70$

$M_E = 1.5 \times F_D$
$= 1.5 \times 240$
$= 360$

$F_D + F_E = 550$
$\overline{x} \quad x + 70$
$2x = 480$
$x = 240$

$M_D + M_E = 760$

360

Q7. What is ratio of total number of male and female doctors together in college B to that in college C?

A. 12 : 25

B. 13 : 32

C. 14 : 19

D. 23 : 34

E. 19 : 32

(handwritten: 260 : 640, 13 : 32)

Q9. In another college D, total number of females is 640 out of which 25% are doctors and number of male doctors in college is 12.5% more than that in college C . What is the total number of doctors in college D?

A. 610

B. 570

C. 590

D. 630

E. None of these

(handwritten: D Female=640, Male, D E, D E, 25%, 160, 450, 610, 1/8 × 400 = 50)

Q8. What is total number of male and female engineers in colleges A, B and C together?

A. 1390

B. 1510

C. 1430

D. 1500

E. 1300
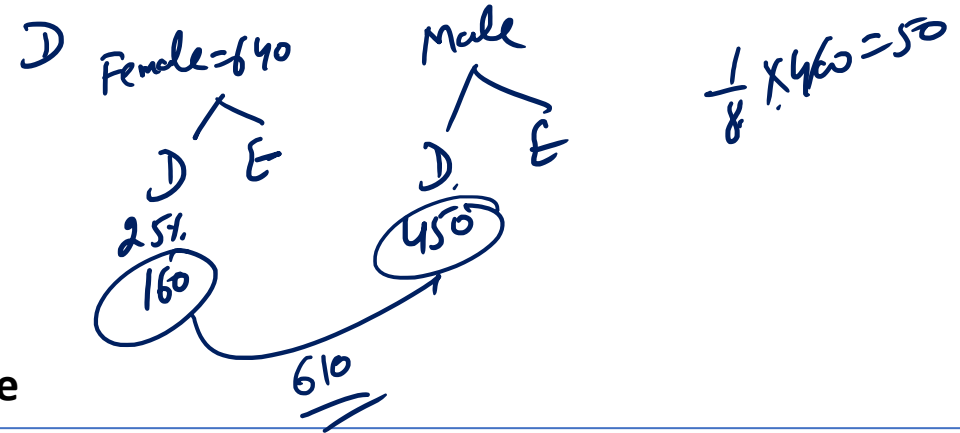
Q10. Average number of female doctors in colleges A, B and C is

A. 160

B. 150

C. 180

D. 200

E. 170

(handwritten: (130 + 140 + 240)/3 = 510/3 = 170)

Read the following information carefully and answer the Questions. The Tabular graph below shows data related to students in different Schools.

School	Total student	Boy : Girl	Pass : Fail	% of students who got scholarship
P		7:9		65
Q	1500		8:7	
R		4:5		60
S	1800		5:4	
T		9:5		40
U	1500	12:13		20

Q11. If 25% of the boys in school U got scholarship, then find how many girls didn't receive scholarship?

A. 624

B. 660

C. 760

D. 550

E. None of these

$720 \times 25\% = 180$

Girls $= 300 - 180 = 120$

$780 - 120 = 660$

$1500 \longrightarrow 20\% = 300$

$25 \rightarrow 1500$
$1 \rightarrow 60$

B   G
12 : 13 $\times 60$
$\times 60$ 780
720

Read the following information carefully and answer the Questions. The Tabular graph below shows data related to students in different Schools.

School	Total student	Boy : Girl	Pass : Fail	% of students who got scholarship
P		7:9		65
Q	1500		8:7	
R		4:5		60
S	1800		5:4	
T		9:5		40
U	1500	12:13		20

Q12. 60% of the students who passed the exam in school Q are boys and percentage of girls who passed the exam is 80%, then find the number of boys in school Q?

A. 1000

B. 1120

C. 1080

D. 1100

E. 950

(Handwritten working:)

80% of Girls = 320

$100\% = \dfrac{320}{80} \times 100 = 400$

1500 − 400 = 1100

Q Total = 1500.

Pass Fail
8 : 7
800   700

Pass
Boys = 800 × 60%
= 480

Girls = 800 − 480 = 320
Pass

Information regarding five different shops A, B, C, D, and E is given below. Each shop sells blue and red pens. Some data is missing which you have to calculate according to the question.

Shop	Number of Pens sold (Blue + Red)	Total Selling Price of pens
A	55	--
B	62	1080
C	--	--
D	51	--
E	--	1450

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$$\text{Avg Price} = \frac{1080}{62} = \frac{540}{31}$$

Alligation & Mixture

Blue
20×31

Red
15×31

$\frac{540}{31} \times 31$

Selling Price of Blue pen = Rs. 20 and Red Pen = Rs. 15 respectively.

Q.13) Find the ratio of the number of blue pens to number of red pens sold by shop B.

[a] 16:15
[b] 11:15
[c] 15:16
[d] 12:13
[e] 13:12

Blue Pen = x
Red = 62 - x
$(20 \times x) + (62 - x)15 = 1080$

Blue   Red
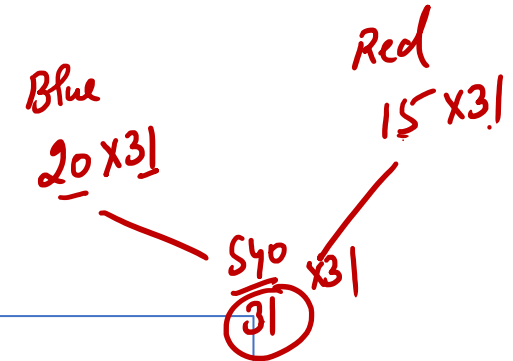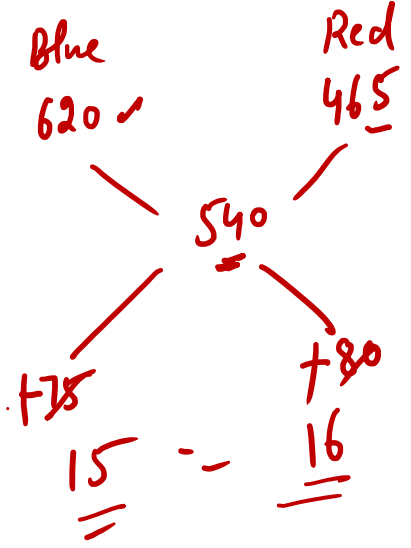620   465

540

+75   +80

15   :   16

Information regarding five different shops A, B, C, D, and E is given below. Each shop sells blue and red pens. Some data is missing which you have to calculate according to the question.

Shop	Number of Pens sold (Blue + Red)	Total Selling Price of pens
A	55	--
B	62	1080
C	--	--
D	51	--
E	--	1450

Selling Price of Blue pen = Rs. 20 and Red Pen = Rs. 15 respectively.

Q.14) Ratio between number of blue pens sold by shop A and number of red pens sold by shop A is 3:2. If total selling price obtained by shop C is Rs 50 less than that obtained by shop A and number of blue pens sold by shop C is 5 more than red pens sold then, number of red pens sold by shop C is?

[a] 24
[b] 28
[c] 21
[d] 31
[e] 34

55
Blue   Red
3 : 2
33   22
×20   ×15
660   330
        990

© Total = 990−50
         = 940

Blue   Red ⟶ 24
x+5   x
20x + 100 + 15x = 940
35x = 840
x = 840/35 = 24

29
?

Information regarding five different shops A, B, C, D, and E is given below. Each shop sells blue and red pens. Some data is missing which you have to calculate according to the question.

Shop	Number of Pens sold (Blue + Red)	Total Selling Price of pens
A	55	--
B	62	1080
C	--	--
D	51	--
E	--	1450

Selling Price of Blue pen = Rs. 20 and Red pen = Rs. 15 respectively.

Q.15) If the ratio of total selling price of shop B and shop D is in the ratio 108:89 respectively. Then find the difference between the number of blue and red pens sold by shop D.

[a] 6
[b] 11
[c] 9
[d] 1
[e] 15

Information regarding five different shops A, B, C, D, and E is given below. Each shop sells blue and red pens. Some data is missing which you have to calculate according to the question.
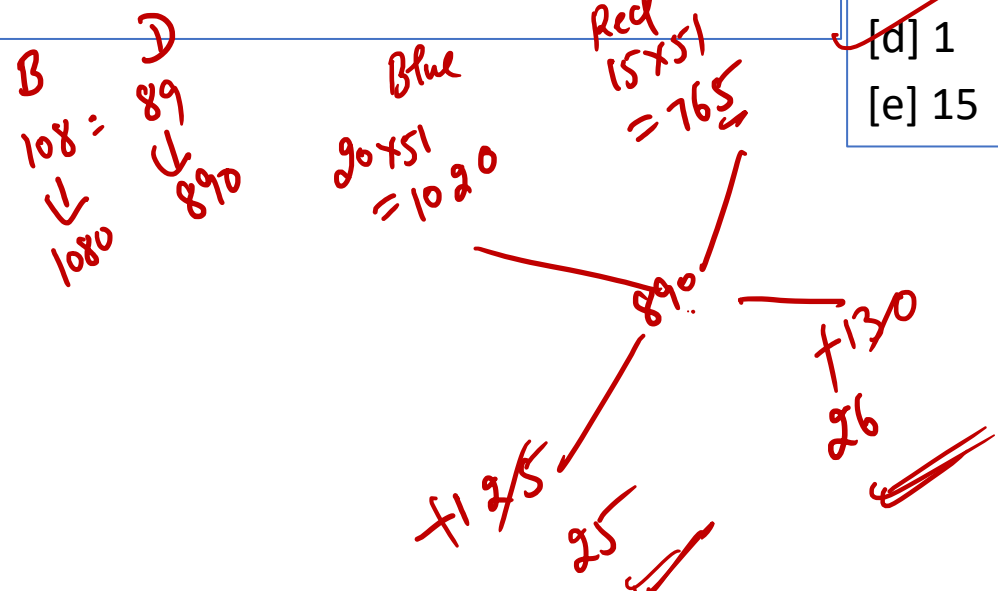
Shop	Number of Pens sold (Blue + Red)	Total Selling Price of pens
A	55	--
B	62	1080
C	--	--
D	51	--
E	--	1450

Comment
↓
Home work

Selling Price of Blue pen = Rs. 20 and Red pen= Rs. 15 respectively.

Q.16) If the sum of total selling price of shop D and E is Rs. 2340 and the average of the red pens sold by these two shops is 30. Then find the number of blue pens sold by shop E.

[a] 61

[b] 59

[c] 41

[d] 57

[e] 47

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Information regarding five different shops A, B, C, D, and E is given below. Each shop sells blue and red pens. Some data is missing which you have to calculate according to the question.

Shop	Number of Pens sold (Blue + Red)	Total Selling Price of pens
A	55	--
B	62	1080
C	--	--
D	51	--
E	--	1450

Comment

Selling Price of Blue pen = Rs. 20 and Red pen= Rs. 15 respectively.

Q.17) Find the average number of red pens sold by shop D,B and shop E together if the total selling price of shop D is $8\frac{1}{3}$% less than that of shop B and the ratio between blue pen sold by shop B and E is 30:47?

[a] 27
[b] 30
[c] 24
[d] 29
[e] 22

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Read the following information carefully and answer the questions based on it.

In a locality there are four buildings namely A, B, C, and D. Each building has a certain number of floors. Each floor has a certain number of flats and each flat has a certain number of people living in it. The information about each building is given below.

Building A: The number of floors in building A is same as number of floors in building C. The number of flats per floor in building A is equal to the product of the smallest and the second smallest prime numbers. The total number of people living in building A is $\sqrt{1764}$.

Building B: The number of floors in building B is one less than the sum of flats per floor in building A and C. The number of flats per floor in building B is the same as the number of floors in building A. The total number of people in building B is $6\frac{2}{3}$ time the number of people in building A.

Building C: The number of floors in building is $\sqrt[4]{2401}$. The number of flats per floor in building C is one less than the number of flats per floor in building A. The number of people per flat in building C is four times more than the number of people per flat in building A. The total number of people in the building is 175.

Building D: The number of floors in building D is 9. The number of people per flat in building D is 60% of the number of people per flat in building C. The total number of people in building D is 108.

Note - The total number of people living in a particular building = No. of floors in the building x No. of flats on each floor x No. of people per flat.

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	No. of floor	No. of flat on each floor	No. of people per flat	Total No. people in bulidng
A	7	6	7	42
B	10	7	4	280
C	7	5	5	175
D	9	4	3	108

$2 \times 3 = 6$

$\sqrt{1764} \to 42$

$6\frac{2}{3} = \frac{20}{3}$

$42 \times 20 = 280$; $\frac{3}{}$

$\sqrt{1764} = 42$; 6×7 ; 48

$1 \times 4 = 4$

$\sqrt[4]{2401} \to 343 \to 49 \to 7$

$(7^4)^{\frac{1}{4}} = 7$

Q.18) What is the ratio of sum of total number of people living in building A and C to the sum of the people living in building B and D?

[a] 217:398

[b] 217:388

[c] 219:388

[d] 219:398

[e] None of the above

(handwritten: 42+175 : 280+108
217 : 388)

Q.19) The number of people living in building C is how much percentage less than the number of people living in building B?

[a] 50%

[b] 40%

[c] 34%

[d] 42.5%

[e] 37.5%

(handwritten: 175   280
105   280) 10500
1 = 12.5%
3 = 37.5%   3 1/5 105 ×100
3/8   280
40%)

Q.20) Which among the four building has the highest number of flats and how many?

[a] C, 35

[b] A, 42

[c] B, 70

[d] C, 45

[e] D, 36

Q.21) If there is another build E where the number of floors is 70% of the number of floors in building B, the number of flats per floor is 1/3rd more than the number of flats per floor in building A and the total number of people in the building is 280. Then find the number people per flat in building E.

(handwritten: Home Work)

[a] 4

[b] 2

[c] 7

[d] 3

[e] 5

Q.22) In the given options below the building and the corresponding number of people per floor is given. Find out which of the following option is right i.e. where the number of people per floor is correctly matched with the building name.

I. A – 6, D – 12, B – 28

II. B – 38, D – 12,

III. C – 25, A – 6, D – 12

[a] Only I

[b] Only III

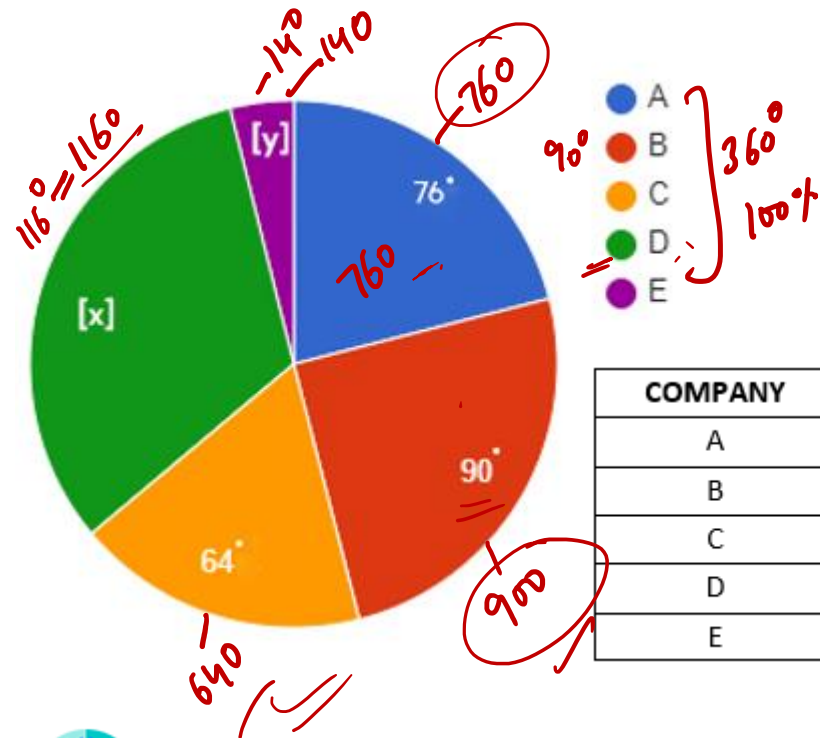[c] Only I and III

[d] Only II and III

[e] Only I and II

Home Work

Five companies A, B, C, D and E manufacture bookshelves. Pie chart given below shows the distribution of total bookshelves manufactured by all 5 companies. The table here represents percentage distribution of unsold bookshelves of different companies.

1. The value of x is 26 degrees greater than that of B.
2. Bookshelves manufactured by D is 1160.
3. Total manufactured bookshelves = sold bookshelves + unsold bookshelves

$x + y$

$116 + y + 76 + 90 + 64 = 360°$

$y = 360 - 346 = 14°$

$1° = 10$

$3P + 10 + 4P + 20 + 35 = 100$

$7P = 100 - 65 = 35$

$P = \dfrac{35}{7} = 5$

Pie chart labels: A, B, C, D, E → 360° 100%

Segments: 76°, 90°, 64°, [x], [y]

Annotations: 14° 140, 76°, 90°, 760, 760, [x] = 116° = 1160, 640, 900

COMPANY	Percentage Distribution	Unsold
A	3P%	→ 15%
B	10%	→ 10%
C	4P%	→ 20%
D	20%	→ 20%
E	35%	→ 35%

Q.23) Find the value of 11P – 3/7y + x/29.

[a] 53

[b] 51

[c] 47

[d] 59

[e] 41

$11 \times 5 - \dfrac{3}{7} \times \overset{2}{\cancel{14}} + \dfrac{\overset{4}{116}}{29}$ $P=5$ $x=116$ $y=14$

$55 - 6 + 4$

$= 53$

Q.24) Find the difference between the unsold bookshelves of company B and average number of bookshelves sold by companies D and C.

[a] 621

[b] 595

[c] 610

[d] 630

[e] None of the above

$900 \times 10\%$ $= 90$

$\dfrac{1160 \times 80\% + 640 \times 80\%}{2}$

$\dfrac{1800 \times 80}{100} = \dfrac{1440}{2} = 720$

$720 - 90$ $= 630$

Q.25) Find the difference between the average unsold bookshelves of company A and B and the average of sold bookshelves of company C and D.

[a] 516

[b] 618

[c] 628

[d] 544

[e] None of the above

$760 \times 15\% + 900 \times 10\%$ $= 720$

$114 + 90 = 204$

$720 - 204$ $= 516$

Q.26) If there is another company F which manufactures 60% more bookshelves than company C and the number of unsold bookshelves for that company is 37.5% of the bookshelves manufactured by company F. Then find the number of bookshelves sold by company E?

[a] 684

[b] 712

[c] 625

[d] 610

[e] 640

Home Work/

Comment

Q.27) If half of the unsold bookshelves manufactured by all the companies are defective. Then find the ratio of sum of defective bookshelves from company B and D to sum of defective bookshelves from company A and C.

[a] 161:121

[b] 161:123

[c] 173:121

[d] 170:123

[e] None of the above

Thank You

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