



MAH-CET 2024

BBA BBM BMS BCA

FREE CRASH COURSE

DAY-1

8 July

REASONING

DATA INTERPRETATION

INVINCIBLE



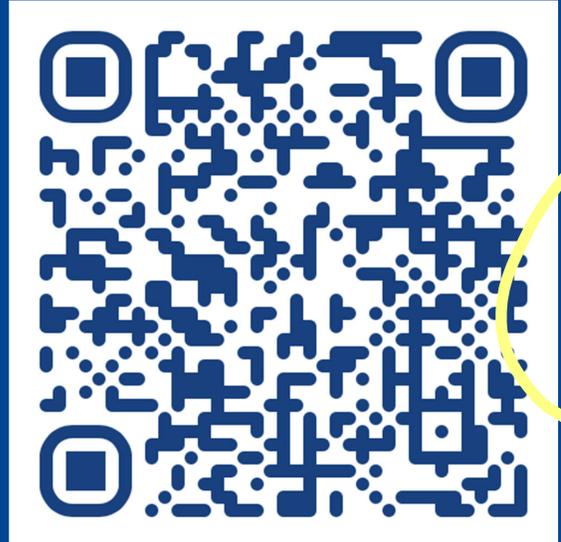


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MOCK TEST

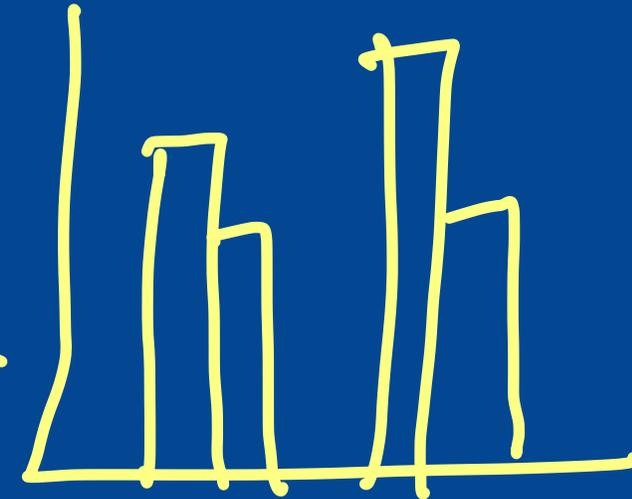
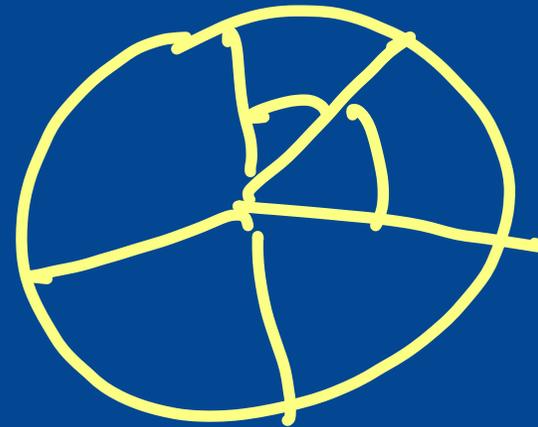
Minus Marking - +1, (0)

What is Data Interpretation?

Analysis of data from information provided in form of table, pie-chart, or bar-graphs.

Course

6th	36
7th	42
8th	26

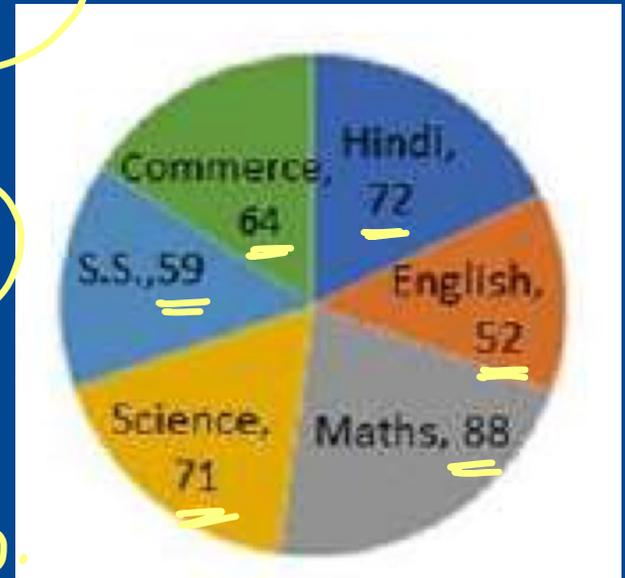




OSYLLABUS

Study the given pie chart and answer the question that follows.

The pie chart represents the marks (out of 100) obtained by Shweta in different subjects - Hindi, English, Maths, Science, Social Science (S.S.), and Commerce in her class-X examination.



The marks obtained in English and S.S. are what per cent less than the marks obtained in Hindi and Maths?

$$52 + 59 = 111$$

$$\frac{72 + 88}{100} = 160$$

$$\frac{111}{160} \times 100 = 30 \frac{105}{160}$$

$$\frac{49}{160} \times 100 = 30 \frac{105}{160}$$

A. $30 \frac{1}{8} \%$

B. $31 \frac{1}{8} \%$

C. $30 \frac{1}{8} \%$

D. $31 \frac{1}{8} \%$

Exam Date

(C)

01

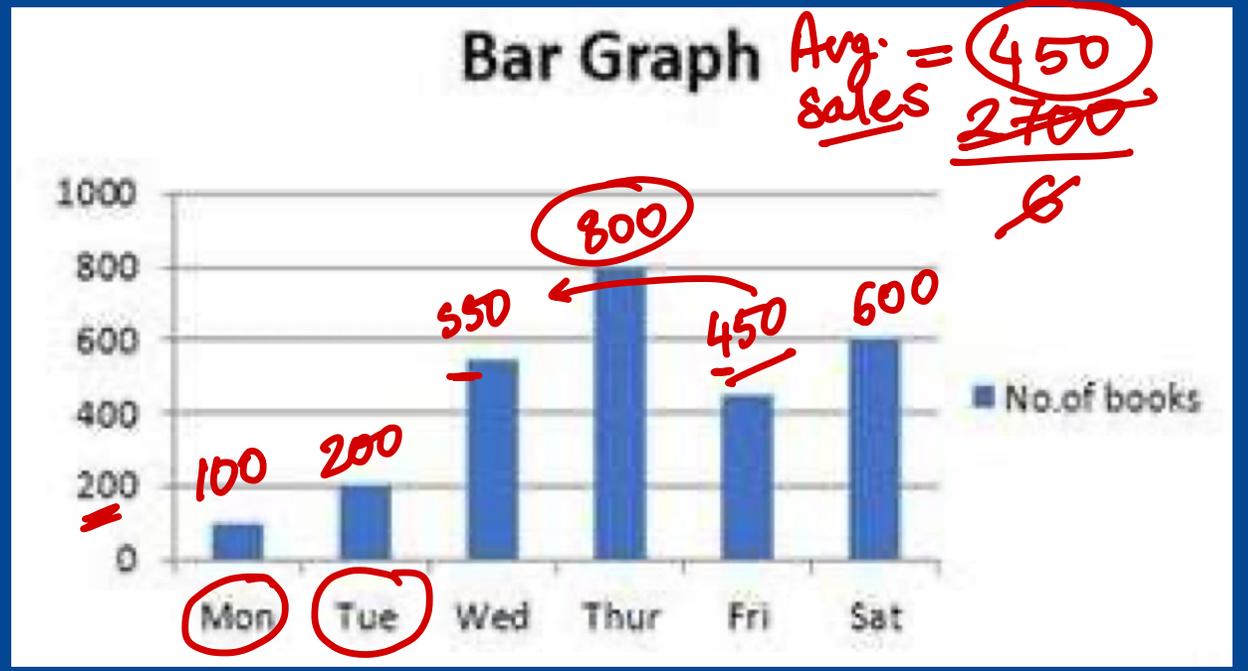
The table shows the sales of books from a school cooperative store in week days.

In how many days are the sales of books below the average sale?

- A. 2
- B. 3
- C. 1
- D. 4

A

SHIFT-2-3
5th July



UPLOADED

Study the given table and answer the question that follows.
The table shows the total score scored by 8 batsmen in the year 2022.

Batsman	A	B	C	D	E	F	G	H
Total Score	1356	1301	1278	1156	1380	1281	1129	1365

Who is the second-highest scorer in the year 2022?

- A. E
- B. B
- C. A
- D. H

The following table shows the heights of six students. Study the table carefully and answer the following question.

Name	Height (in cm)
Vanaja	117
Sailaja	125
Uma	133
Sudha	140
Amala	132
Leela	121

Vanaja Uma

How many students are there whose height is between that of Vanaja and Uma?

- A. One
- B. Two
- C. Three
- D. Four

The following table gives the sales of TVs of different brands over the years (numbers in thousands).

Year	TV Brands			
	Brand 1	Brand 2	Brand 3	Brand 4
2015	80	150	116	112
2016	84	130	108	70
2017	98	124	80	110
2018	110	100	160	95
2019	196	180	159	190
2020	124	70	174	54
2021	128	90	180	150

2019
Highest Sold

Which TV brand is the highest sold in the year 2019?

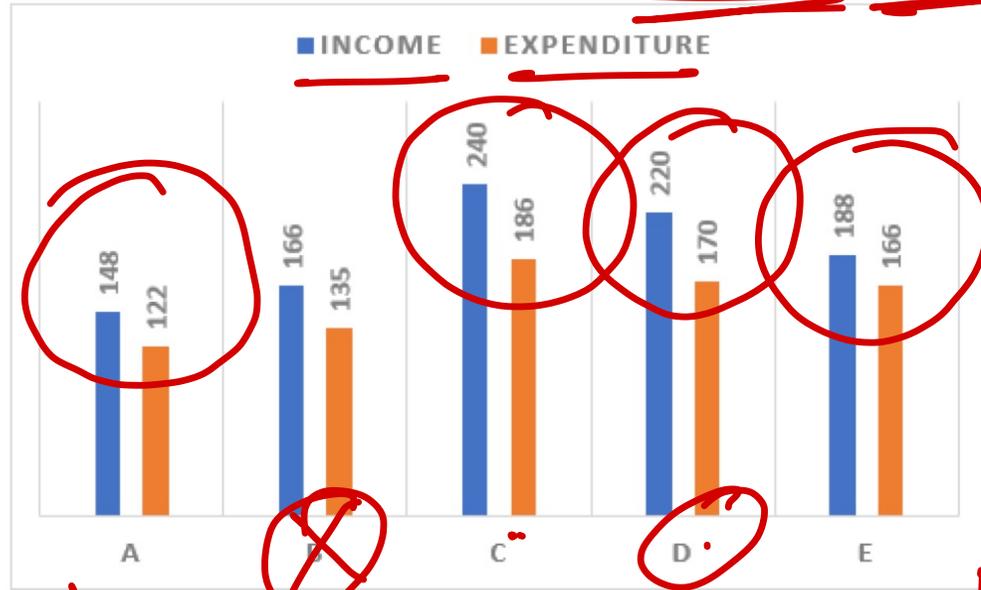
- A. Brand 1
- B. Brand 4
- C. Brand 3
- D. Brand 2



05

A

The following bar graph gives the details of income and expenditure of five companies A, B, C, D, E (in crores of rupees)



$$\frac{26}{122} \times 100 \quad A$$

$$\frac{54}{186} \times 100 \quad C$$

$$\frac{50}{170} \times 100 \quad D$$

$$\frac{22}{166} \times 100 \quad E$$

The profit percentage $\left(\frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100 \right)$ is highest for the company:

A. D

B. E

C. A

D. C



06

Percentage

@Entity

The production of three products by three companies is given below in the table.

Product ↓	Company →		
	1	2	3
A	25	35	10
B	30	15	20
C	20	20	40

Which of the following gives maximum production of a product by any company?

- A. Product C, Company 3
- B. Product B, Company 1
- C. Product A, Company 3
- D. Product A, Company 2

A

Table shows the annual income of 5 schools (in lakhs rupees).

SOURCE OF INCOME	SCHOOLS				
	P	Q	R	S	T
DONATION	140	250	200	300	220
TUITION FEES	280	310	340	200	200
GRANTS	110	110	120	125	130
EXAM FEES	102	104	110	120	130
MISC	160	180	190	200	250

792 954 960 945 930

Which school has the highest percentage of income from donations out of its total income?

A. Q

B. P

C. S

D. R

$$\frac{250}{954}$$

$$\frac{200}{960}$$

$$\frac{300}{945}$$

$$\frac{220}{930}$$

33%



08

C

Study the given table and answer the question that follows.

The table represents the mathematics marks of five students.

Name	Ajay	Pronoy	Mahendra	Jharna	Dipti
Marks	85	72	70	84	94

What is the average marks?

- A. 77
- B. 80
- C. 81
- D. 78

C

Study the given table and answer the question that follows.

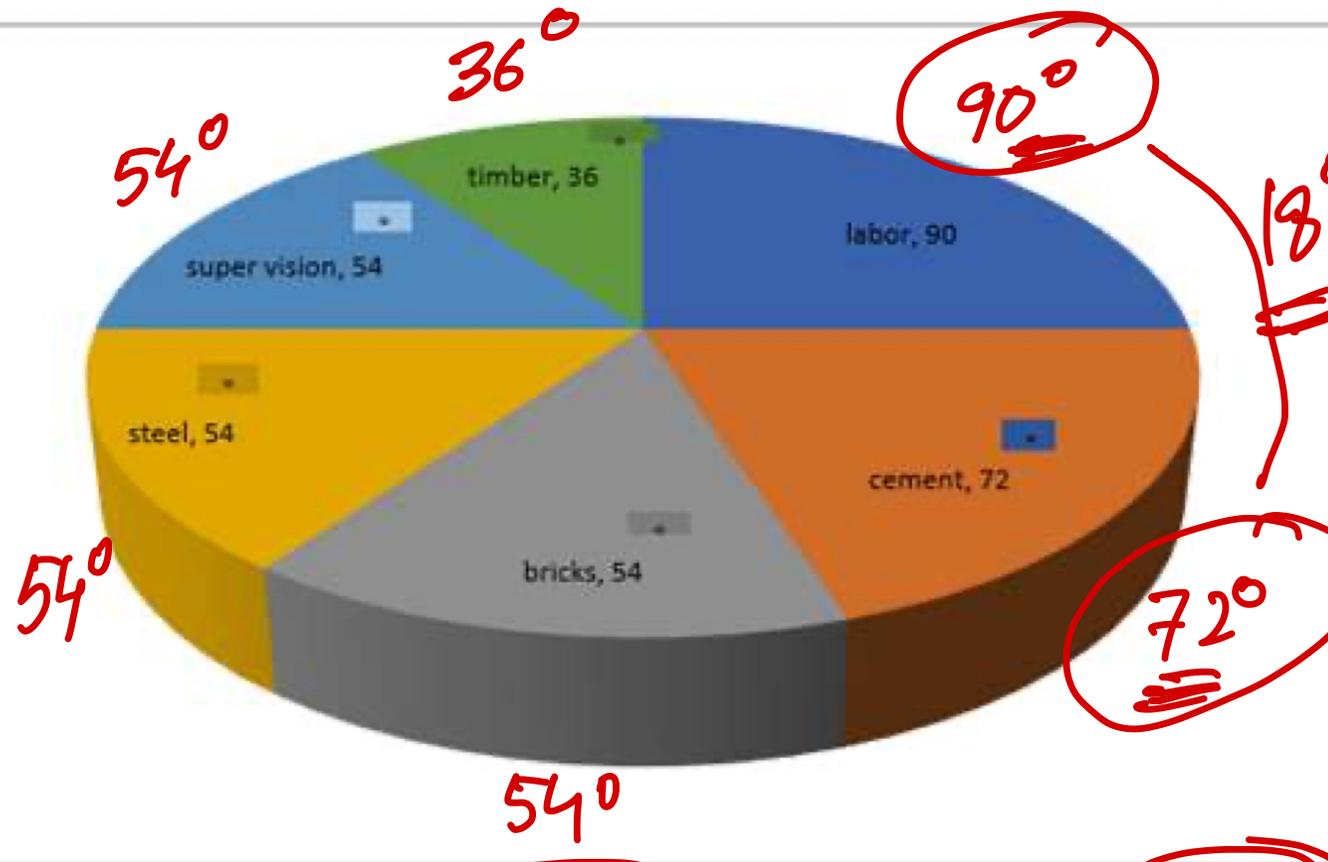
The table indicates the number of students studying in three disciplines in four colleges.

Disciplines	Colleges			
	A	B	C	D
Mathematics	200	300	300	350
Statistics	250	320	400	250
Home Science	320	340	300	450

Which college has the maximum number of students in Statistics?

- A. D
- B. A
- C. C
- D. B

The pie chart shows the cost of construction of a house . (in degrees)



$$\frac{18}{360} \times 100 = 5\%$$
$$\frac{72}{360} \times 100 = 20\%$$

5%

The amount spent on labour exceeds the amount spent on cement by:

- A. 18% of the total cost
- B. 5% of the total cost
- C. 12% of the total cost
- D. 10% of the total cost

A

$$\frac{18}{360} \times 100$$



If 300 calories are burnt in every 5 km, how many calories were burnt in the whole week?

Week days	Distance jogged (km)	
Sunday	2.5	150
Monday	4.0	240
Tuesday	2.5	150
Wednesday	3.5	210
Thursday	1.5	90
Friday	2.5	150
Saturday	1.5	90

$$\begin{array}{l}
 60 \\
 \underline{300} \longrightarrow 5 \text{ km} \\
 \text{\$ } 60 \longrightarrow 1 \text{ km} \\
 \underline{\quad}
 \end{array}$$

- A. 1080 calories
- B. 1410 calories
- C. 5400 calories
- D. 1310 calories

A

Table shows year wise road accidents registered in a city during 2015 - 2018.

Years \ Accidents	Minor	Injury	Serious	Casualties
2015	160	125	55	30
2016	150	120	50	35
2017	210	170	30	25
2018	190	130	60	40

20
50 → 30

$$\frac{20}{50} \times 100 = 40\%$$

500

40%

100

What is the percentage reduction in serious from the year 2016 to 2017?

- A. 35%
- B. 20%
- C. 25%
- D. 40%

13

90%





Study the given table and answer the question that follows.
Marks obtained (out of 100) by four students P, Q, R, and S in four subjects in an examination are given in the table

Which student has scored the marks in the ratio of 10:13 in Physics and Mathematics?

MM. 100	Students			
Subjects	P	Q	R	S
Mathematics	80	56	45	78
Statistics	78	60	54	70
Physics	70	50	40	60
Geology	65	52	49	57

A

- A. S
- B. Q
- C. P
- D. R

P:M

Handwritten calculations for the ratio of marks in Physics and Mathematics:

- For student P: $\frac{80}{70}$
- For student Q: $\frac{56}{50}$
- For student R: $\frac{45}{40}$
- For student S: $\frac{78}{60}$

The ratio $\frac{13}{10}$ is also written, indicating the target ratio.

14

The table given below shows the number of aerated drinks—A, B, C, D— manufactured (in thousands) by a company over the years.

Which aerated drink has the highest manufacturing number from 2019 to 2022?

- A. D
- B. B
- C. A**
- D. C

YEAR	Aerated Drinks			
	A	B	C	D
2019	250	200	140	115
2020	200	230	170	120
2021	260	210	195	135
2022	275	175	190	155

985 815

C

X X

The following pie chart shows the percentage distribution of school expenditure.

If the teacher's salary and rent together is Rs. 45 lakhs, then find the savings.

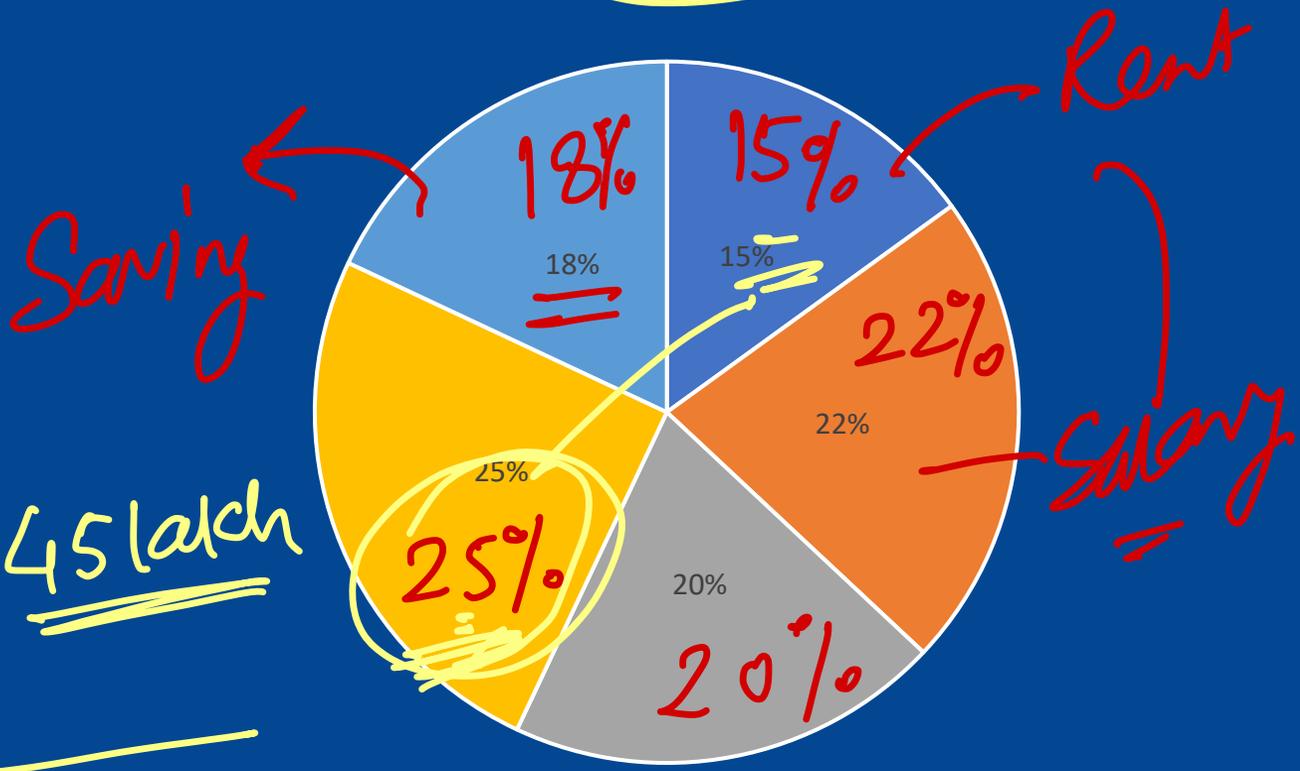
- A. Rs. 22,53,000
- B. Rs. 24,75,000
- C. Rs. 16,87,500
- D. Rs. 20,25,000

115

Rent + Salary = 40% = 45 lakh

Savings = 18% = _____

$\rightarrow 20\% \rightarrow$ 22.5 lakh



Legend: Rent (light blue), Furnitures (orange), Others (grey), Teacher's Salary (yellow), Savings (dark blue)



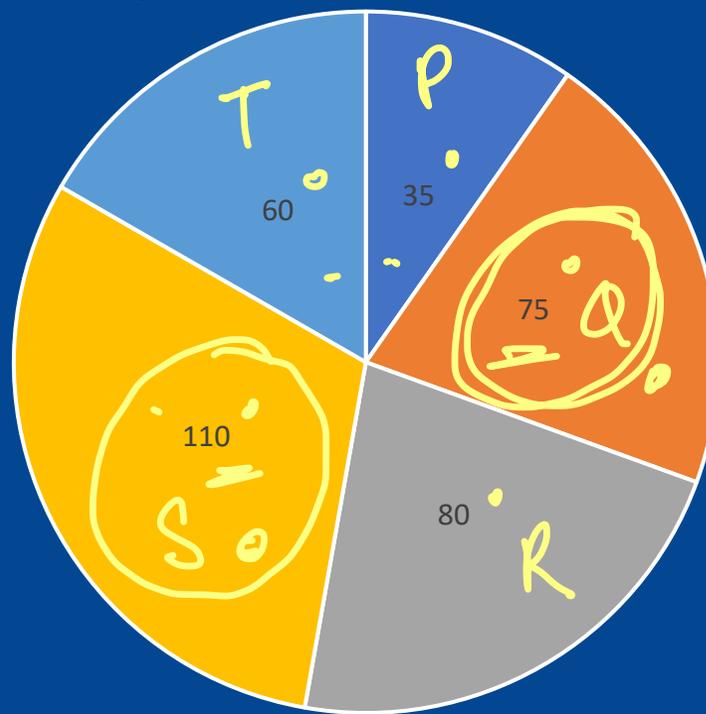
The pie chart shows the angular representation of placement data in five different courses. If the total number of candidates qualified is 1,44,000, then the number of candidates in Q is what per cent of candidates in S? (Rounded off to 2 decimal places)

17

- A. 68.16%
- B. 68.12%
- C. 68.18%
- D. 68.15%

$1,44,000 =$

68.18



■ P ■ Q ■ R ■ S ■ T

C

90

~~750~~
H

20

90



Table given below shows the performance of students of class-10 according to NAS survey in Delhi.

	<u>Below Basic</u>	<u>Basic</u>	<u>Proficient</u>	<u>Advance</u>
MIL	40	35	20	5
Maths	19	45	25	11
Science	41	29	25	5
Social Science	34	21	33	12
English	8	5	34	52

18

The highest average performance is for _____

- A. Proficient
- B. Below Basic**
- C. Basic
- D. Advanced

$$\frac{142}{5} = 28.4$$

Handwritten calculation showing 142 divided by 5, with a result of 28.4. The number 142 is circled.

201

(B)



29 May Shift-2 Afternoon

ABC Ltd. provided the following data of quarterly sales of 4 products W,X,Y, and Z. Find out Which product had the highest average sales over the four quarters?

Product	W	X	Y	Z
Q1	75	60	105	83
Q2	90	68	98	75
Q3	83	75	90	68
Q4	105	83	83	60

$$\frac{W}{4} \quad \frac{Y}{4} \quad X$$

363773

Product W

363774

Product X

363775

Product Y

363776

Product Z

19

CET

2

29 May Shift-2 Afternoon

Study the following table and answer the question

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	410	142	3.96	49.4	98

The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

363865

0.1%

363866

0.5%

363867

1%

363868

1.25%

$$\frac{17.00}{1700}$$

~~17~~ x 100
~~1700~~
 1%

20



29 May Shift-2 Afternoon

21

Afternoon

3

Study the following table and answer the question

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	410	142	3.96	49.4	98

The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

363869

4:7

363870

5:8

363871

10:13

363872

15:18

1080P

20

450

451

585

586

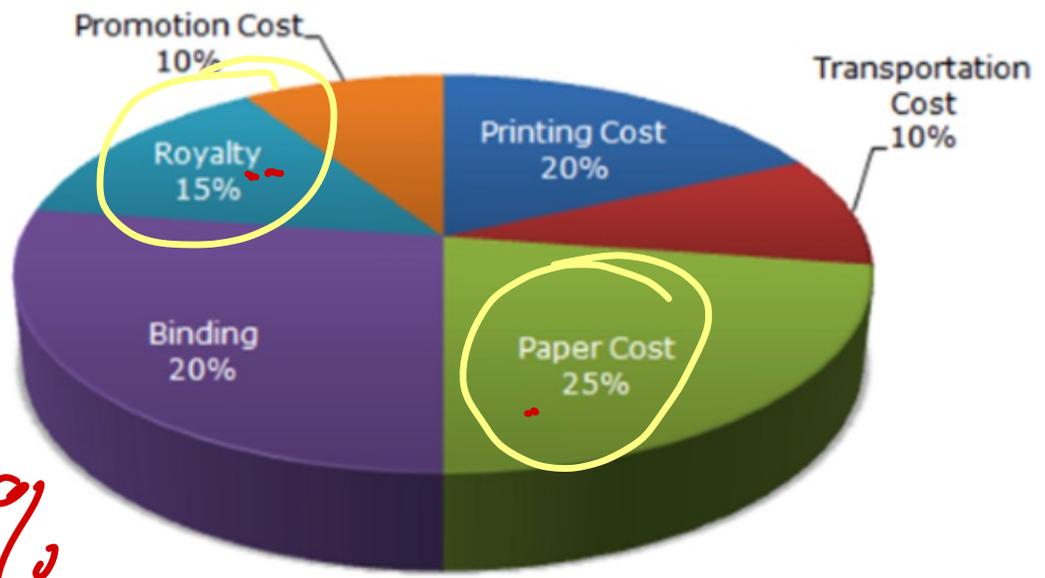
13

C

10:13

The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book



15%
 15%

Royalty on the book is less than the Paper cost by _____.

- 364201
- 364202
- 364203
- 364204

$$\frac{25 - 15}{25} \times 100 = 40\%$$

- 40%
- 20%
- 10%
- 33 1/3 %

29 May Shift-3 Evening

40%

20%

10%

33 1/3 %

Royalty - 15%
 Paper cost = 25%

Diff = 10%

40%

$$\frac{10}{25} \times 100 = 40\%$$



24

Study the following table carefully and answer the questions given below it:

Number of Different categories of vehicles sold in the country over the years (in thousands)

Year	Heavy Commercial Vehicles	Light Commercial Vehicles	Cars	Jeeps	Two Wheelers
1990	26	64	232	153	340
1991	45	60	242	172	336
1992	72	79	248	210	404
1993	81	93	280	241	411
1994	107	112	266	235	442
Total	331	408	1268	1011	1933

Handwritten notes in red ink: '20' is written above '64' and '18' is written below '60'. A bracket under '112' and '1933' is labeled '20%'. Arrows point from '112' to '442' and from '1933' to the question.

In which of the following years was the number of light commercial vehicles sold approximately 25% of the number of 2-wheelers sold?

364285

364286

364287

364288

1991

1992

1993

1994

Handwritten circled 'D' with an arrow pointing to the 1994 option.

Handwritten calculation: $112 \times 4 = 448$

Handwritten underlined '448'

Handwritten circle around the 1994 option.



25

Study the following table carefully and answer the questions given below it:

Number of Different categories of vehicles sold in the country over the years (in thousands)

Year	Heavy Commercial Vehicles	Light Commercial Vehicles	Cars	Jeeps	Two Wheelers
1990	26	64	232	153	340
1991	45	60	242	172	336
1992	72	79	248	210	404
1993	81	93	280	241	411
1994	107	112	266	235	442
Total	331	408	1268	1011	1933

If the same percentage increase in the number of Heavy Vehicle as in 1994 over 1993 is expected in 1995, approximately how many heavy vehicles will be sold in 1995?

364289

364290

364291

364292

133

141

146

156

Handwritten calculations on a blue background:

- $107 + 33 = 140$
- $140 + 2 = 142$
- 33.33%
- $81 \times 1.3333 \approx 107$
- $107 \times 1.3333 \approx 142$
- Final answer circled in red: **142**

Handwritten answer **B** circled in red.



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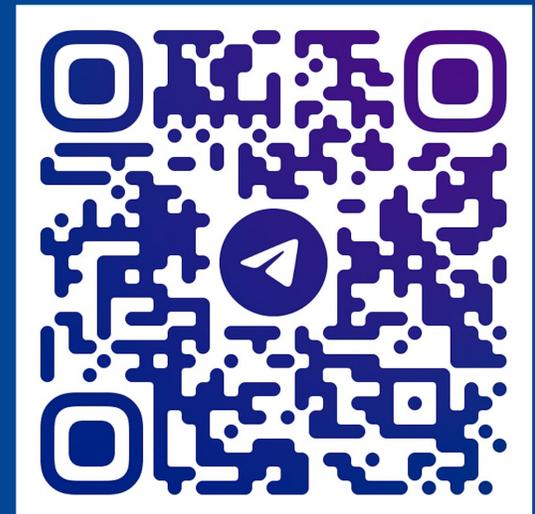


TELEGRAM

Shift-2/3



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