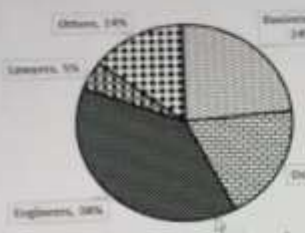
DATA Interpretation Part 2

QUESTIONS

Q 14. The given pie chart represents the break up of working men in a colony.

Study the chart carefully and the answer the questions that follow.

Percentage distribution by Profession



Total number of working men in the colony = 6000

How many of the working men are engineers or doctors?

Ops: A. 1140
B. 3420
C. 2280
D. 2420

Reset

DATA INTERPRETATION

Q 14. The table represents percentage of students in the classes, who passed in the annual exams in the year 2019-20.

Study the table carefully and the answer the questions that follow.

Class	Number of students	Percentage of students who passed
7	240	75%
8	180	60%
9	200	70%
10	160	50%
11	225	90%
12	300	80%

[Note: The students either passed or failed in the examination, and each student appeared for the exam]

How many students of class 8 failed in the annual exam?

Ops: A. 82
B. 60
C. 108
D. 72

Data Interpretation

Q3

The following table represents the price and P/E ratio of a company on the last day of six financial years. Study the table carefully and answer the questions that follow.

Year	Price(₹)	P/E ratio	Market Capitalisation (in million dollars)
2014	1500	15	125
2015	1400	12	120
2016	1600		140
2017	1250	18	130
2018	1400	10	145
2019	1650	16	150

Note: P/E ratio = (Price of each share (P))/(Earnings per share (E))
Market Capitalisation = Number of shares * Price of each share

Q 33. What was the earnings per share of the company in 2017?

Ops: A. ○ $57.67
B. ○ $98.23
C. ○ $85.67
D. ○ $69.44

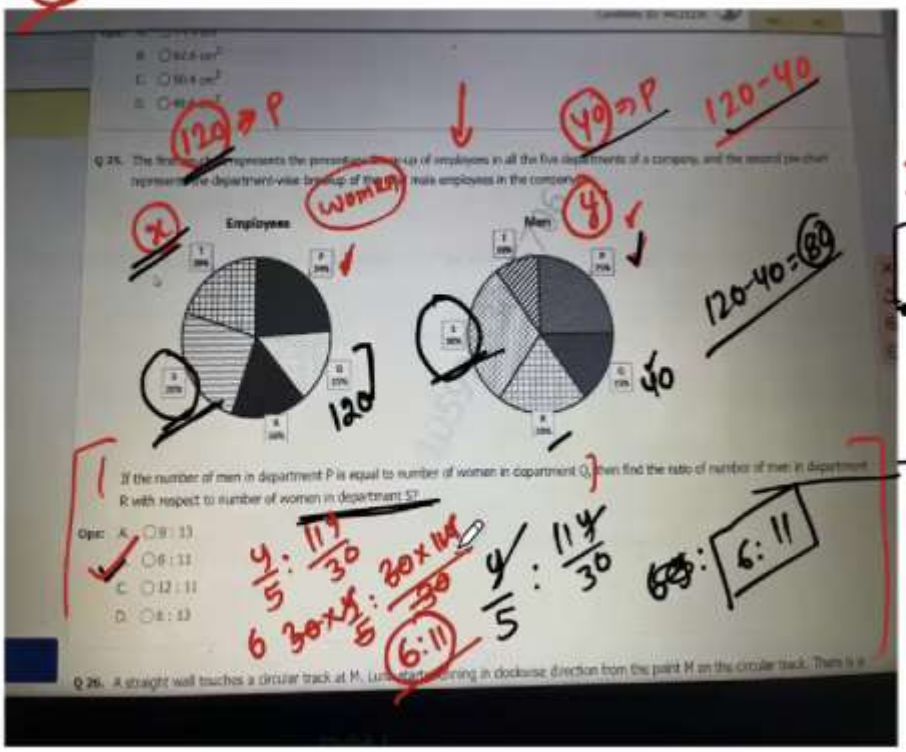
P/E ratio = Price of Each share / Earning per share

Earning per = Price / (P/E) ratio

1250 / 18 = 69.44

DATA INTERPRETATION

Q4



120 ≡ P
40 ≡ P
120 − 40

Women
Men

120 − 40 = 80

$M_P = W_Q$

$y \times \frac{25}{100} = x \times \frac{15}{100}$ (Total) $- y \times \frac{15}{100}$ (Male)

$\frac{40}{100} y = x \times \frac{15}{100}$

$3x = 8y, \quad x = 8y/3$ ①

Total = Male

$y \times \frac{20}{100} + x \times \frac{25}{100} = y \times \frac{30}{100}$

$\frac{4}{5} : \frac{28y}{3x4} - \frac{3y}{10}$

$\frac{4}{5} : \frac{20y - 9y}{30}$

$\frac{4}{5} : \frac{11y}{30}$

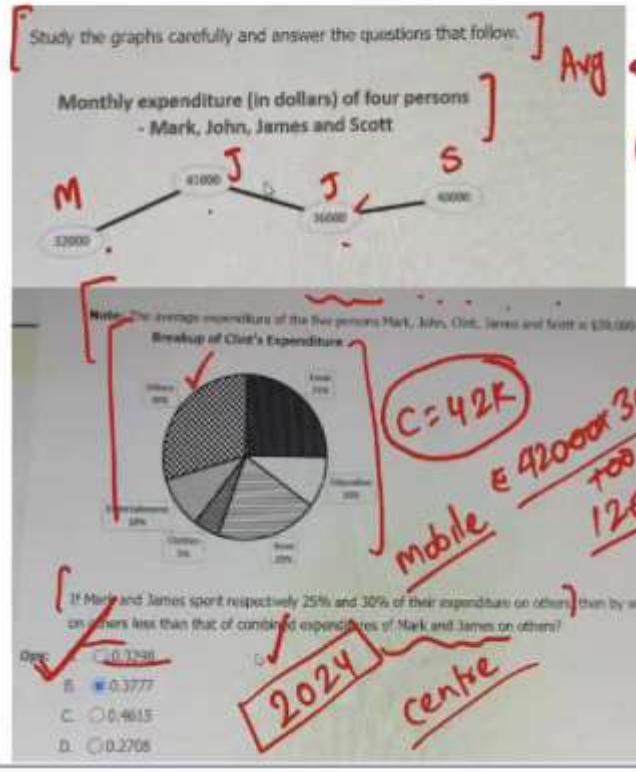
$\frac{4}{5} : \frac{11}{30}$

$6 : \frac{30 \times 11}{30}$

6 : 11

6 : 11

DATA INTERPRETATION



Avg. $\frac{M+J+C+J+S}{5} = 39K$

$\frac{32K+45K+C+36K+40K}{5} = 39K$

$153K + C = 195K$

$C = 195K - 153K$

$= 42K$

$32000 \times \frac{1}{4} = 8000$

$36000 \times \frac{30}{100} = 10,800$

$18,800$ → (M+J)

C = 42K

Mobile $42000 \times \frac{30}{100} = 12600$

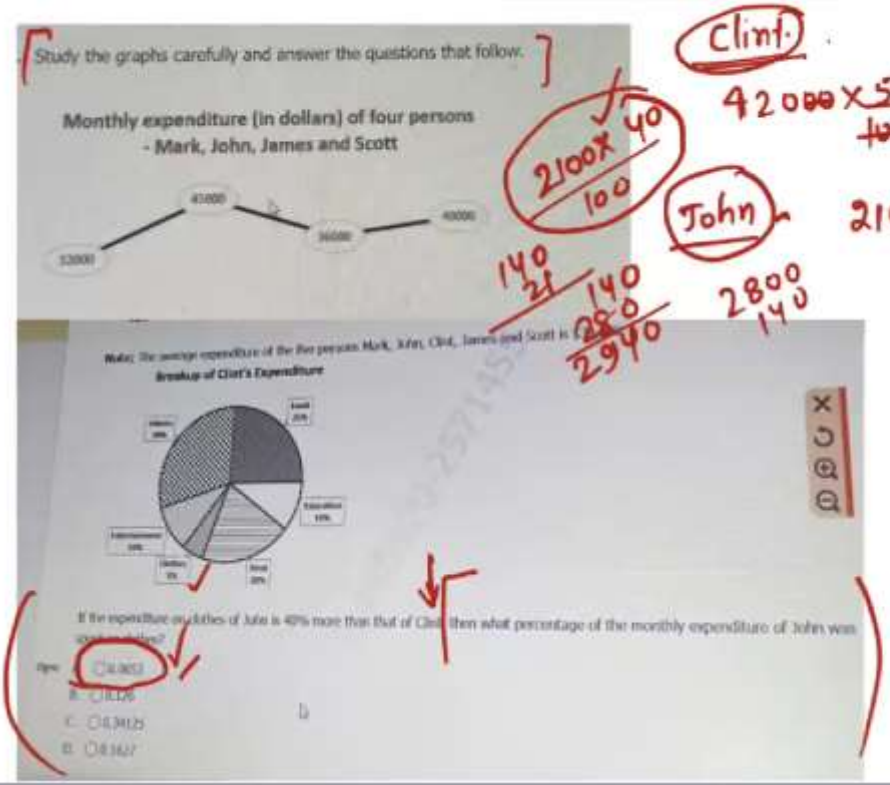
$\frac{18,800 - 12,600}{18,800}$

$\frac{6200}{18800} = 0.3297$

2024 centre

Clear

DATA INTERPRETATION



Clint.

$42000 \times \frac{5}{100} = 2100$

$2100 \times \frac{40}{100}$

John → $2100 \times \frac{140}{100} = 2940$

$\frac{140}{21}$ $\frac{140}{2940}$ 2800 140

2940

45000

0.0653

6.53%

$\frac{40}{100} = 0.4$ 40%

DATA INTERPRETATION

The given table represents the total number of students in different classes, the ratio of girls to boys in the class, and their average marks in a test.

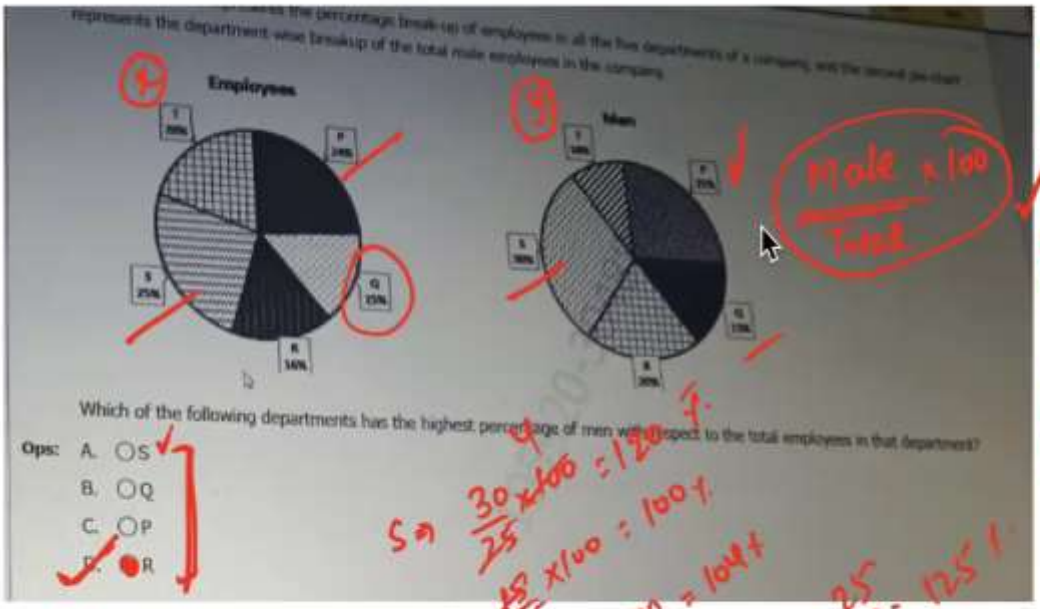
Study the table carefully and answer the questions that follow.

Class	Ratio of girls to boys	Average marks of		
		Girls	Boys	Overall
6	5 : 6	12.5		18.2
7	6 : 7		16.5	
8	3 : 5	12	18	
9	5 : 9	20.5		
10	1 : 8	20		24

Q 38. What is the average marks of boys in class 6 in the test?

Ops: A. 20.67
B. 24.17
C. 22.95
D. 25.87

DATA INTERPRETATION

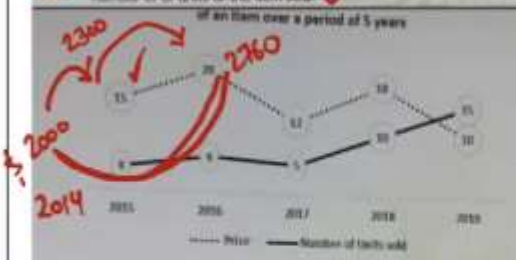


Which of the following departments has the highest percentage of men with respect to the total employees in that department?

Ops: A. S
B. Q
C. P
D. R

DATA INTERPRETATION

Q 12. The following line graph gives the percentage increase in the price of an item over a period of 5 years and the percentage increase in the number of of units of the item sold.



Note: All the values are the increase over previous years. In 2014, the price of the item was $2000 and the number of units sold was 50,000.

Sales (in value) = (price) * (number of units sold)

What was the percentage increase in the price of an item from 2014 to 2018?

Options:

A. 0.38
B. 1.38
C. 1.1024
D. 0.1024

Reset

2014 ⇒ $2000

2014 2000 15↑

2000 × 115/100 = 2300

2300 × 120/100 = 2400 + 360 = 2760

2014 → 2018

2000 ——— 2760

760 × 100 / 2000

38%

0.38