

MEGA REVISION

SERIES

DAY 24

FOR BBA BBM BMS BCA

REASONING

3-4Q

DATA

INTERPRETATION



INVINCIBLE 2.0
MAH CET BBA BCA
& CUET UG GT 2025





JOIN US ON  WHATSAPP



SUBS

JOIN US ON  TELEGRAM



FOR MAH CET FOR BBA BBM BMS BCA
& CUET UG PAPER 3 GENERAL TEST

To enroll for SUPER BUNDLE visit : updatestoday.in

CHALD BASICS PE

Data Interpretation:

1. Percentage
2. Ratio and proportion.
3. Average

Bar Graph

Pie-Chart

Table.

+ Question
(3-5Q)



$$\begin{array}{r} 182 \\ 183.3 \\ \hline 146 \\ 91 \end{array}$$

$$\text{Avg} = \frac{23\text{④} + 32\text{⑤} + 41.6 + 36.4 + 49.4}{5}$$

$$\frac{183.3}{5} = 36.66$$

Table : (in lakhs)



| Year | Salary | Fuel and Transport | Bonus | Interest on Loans | Taxes |
|------|--------|--------------------|-------|-------------------|-------|
| 1998 | 288 | 98 | 3 | 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 | 420 | 142 | 3.96 | 49.4 | 98 |

What was the average amount of interest on loans per year which the company had to pay during this period?

- (A) Rs. 32.43 lakhs
- (B) Rs. 33.72 lakhs
- (C) Rs. 34.18 lakhs
- (D) Rs. 36.66 lakhs



$$\frac{170}{171} = 1$$

$$\frac{\text{Total Bonus}}{\text{Total Salary}} \times 100$$

$$= \frac{17}{171} \times 100 = \frac{170}{171}$$

$$\approx 1\%$$

| Year | Salary | Fuel and Transport | Bonus | Interest on Loans | Taxes |
|------|--------|--------------------|-------|-------------------|-------|
| 1998 | 288 | 98 | 3 | 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 | 420 | 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?

- (A) 0.1%
- (B) 0.5%
- ☒ (C) 1%
- (D) 1.25%

$$14 + 1 + .80 + 1 + .20 = 17$$



| Year | Salary | Fuel and Transport | Bonus | Interest on Loans | Taxes |
|------|--------|--------------------|-------|-------------------|-------|
| 1998 | 288 | 98 | 3 | 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 | 420 | 142 | 3.96 | 49.4 | 98 |

$$\frac{\text{Total of 1998}}{\text{Total of 2002}} \times 100$$

495 →
713 →

$$\frac{495}{713} \times 100 = \frac{49500}{713}$$

$$\approx \underline{\underline{69\%}}$$

Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

- (A) 62%
- (B) 66%
- ✓ (C) 69%
- (D) 71%



$$\frac{\text{Total of taxes}}{\text{Total of FRT}} = \frac{451}{586}$$

$$= \frac{450}{585} = \frac{10}{13}$$

135

$$450 + 135 = \underline{\underline{585}}$$

| Year | Salary | Fuel and Transport | Bonus | Interest on Loans | Taxes |
|------|--------|--------------------|-------|-------------------|-------|
| 1998 | 288 | 98 | 3 | 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 | 420 | 142 | 3.96 | 49.4 | 98 |

What is 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 (approximately)?

- (A) 4:7
- (B) 10:13
- (C) 15:18
- (D) 5:8



| Year | Salary | Fuel and Transport | Bonus | Interest on Loans | Taxes |
|------|--------|--------------------|-------|-------------------|-------|
| 1998 | 288 | 98 | 3 | 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 | 420 | 142 | 3.96 | 49.4 | 98 |

$$\frac{\text{difference } (420 - 288)}{288} \times 100$$

$$\frac{132}{288} \times 100$$

$$\frac{13000}{300}$$

$$\frac{1000}{=43}$$

What was the percentage increase in Salary from 1998 to 2002?

- (A) 35.2%
- ✓ (B) 45.8%
- (C) 50.1%
- (D) 40.5%

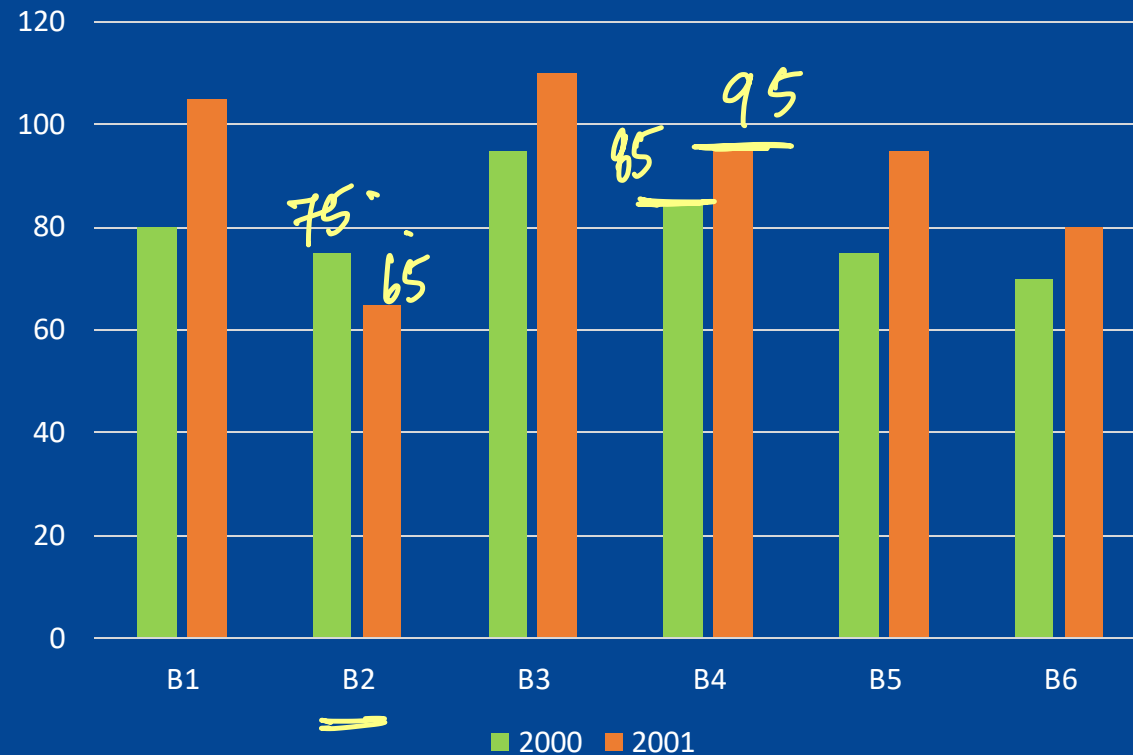
$$40 \rightarrow \underline{\underline{50}}$$



$$\frac{B2 \text{ (total)}}{B4 \text{ (total)}}$$

$$= \frac{140}{180} = \frac{14}{18} = \frac{7}{9}$$

Bar Graph



What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?

- (A) 2:3
- (B) 3:5
- (C) 4:5
- (D) 7:9

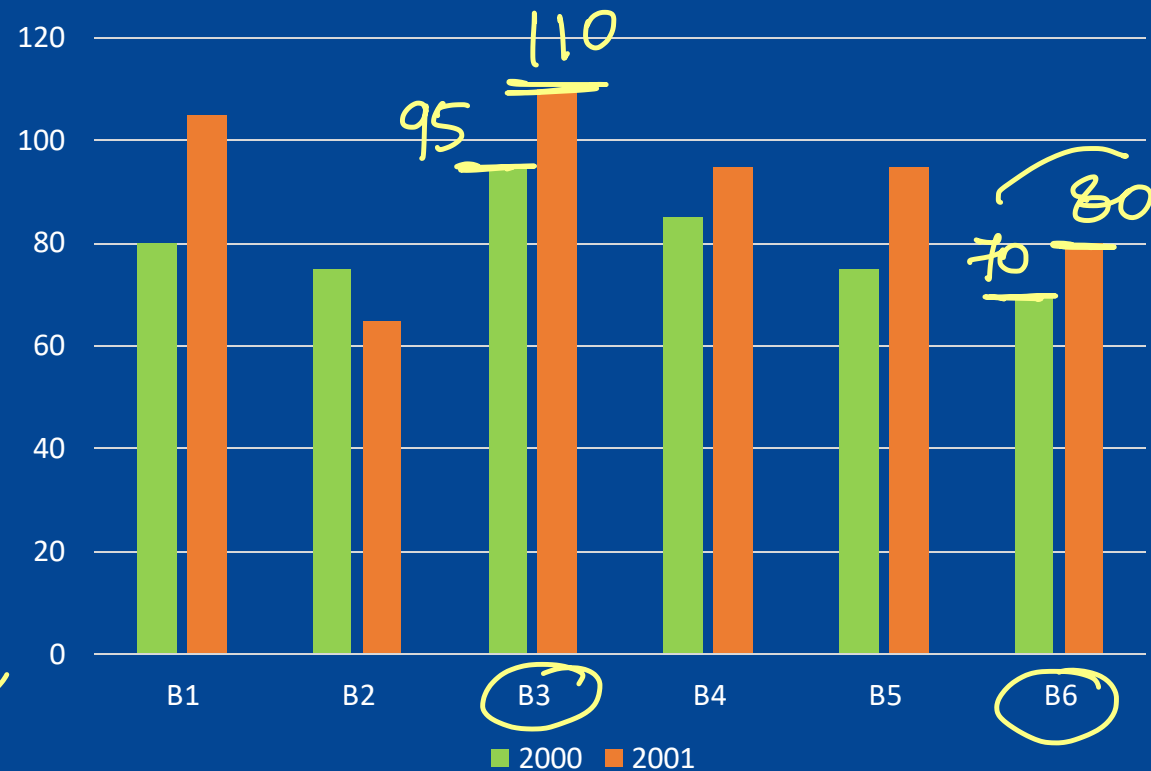
(D) 7:9

NO CALCULATOR ALLOWED ~



$$\frac{150}{205} \times 100 =$$

$$\frac{150}{260} \times 100 = 73.17\% \downarrow$$



Total sales of branch B6 for both the years is what percent of the total sales of branch B3 for both the years?

(A) 68.54%

(B) 71.11%

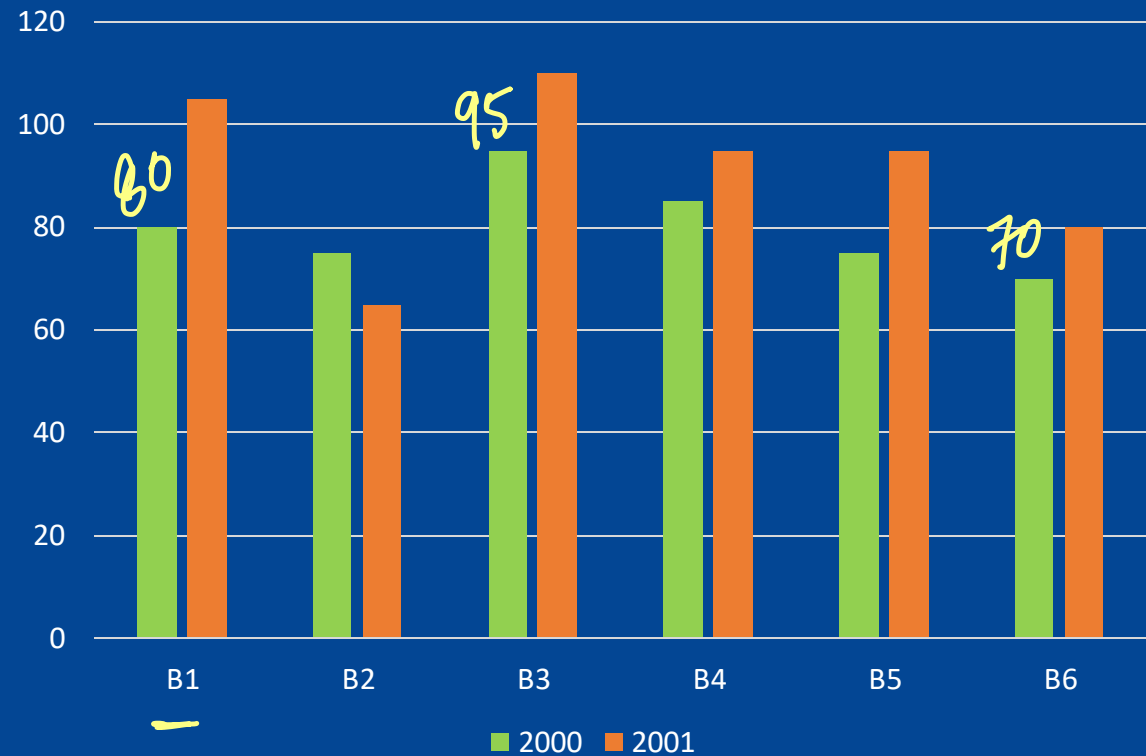
✓ (C) 73.17%

(D) 75.55%



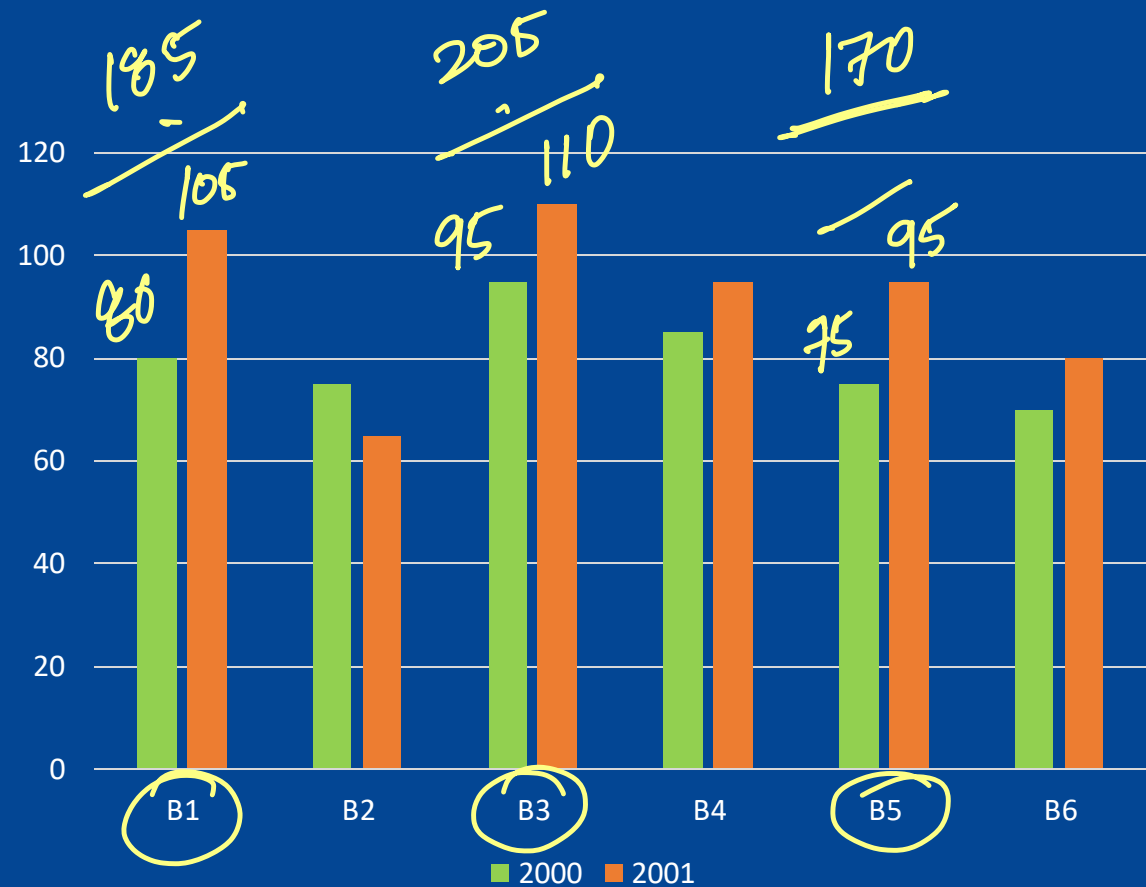
$$\begin{array}{r} 81.67 \\ 245 \\ \hline 3 \end{array}$$

$$\underline{81.67}$$



What is the average sales of branches B1, B3 and B6 (in thousand numbers) for the year 2000?

- (A) 75
- ☒ (B) 81.67
- (C) 85
- (D) 87.5

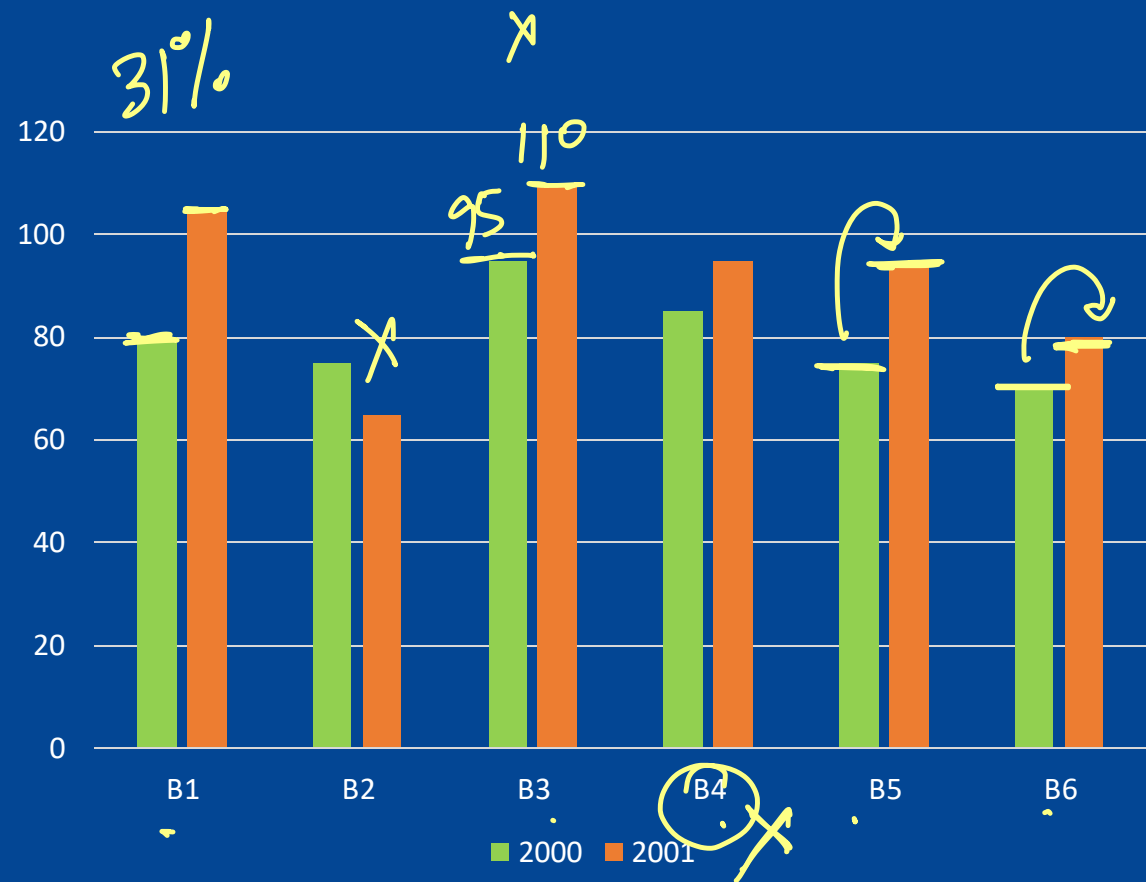


What are the total sales of branches B1, B3 and B5 together for both the years (in thousand numbers)?

- (A) 250
- (B) 310
- (C) 435
- (D) 560



$$\frac{25}{80} \times 100 = \frac{250}{8} = 31\%$$



Which branch showed the highest percentage increase in sales from 2000 to 2001?

- (A) B1
- (B) B3
- (C) B5
- (D) B6



If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be the amount of royalty to be paid for these books?

- (A) Rs. 19,450
(B) Rs. 21,200
(C) Rs. 22,950
(D) Rs. 26,150

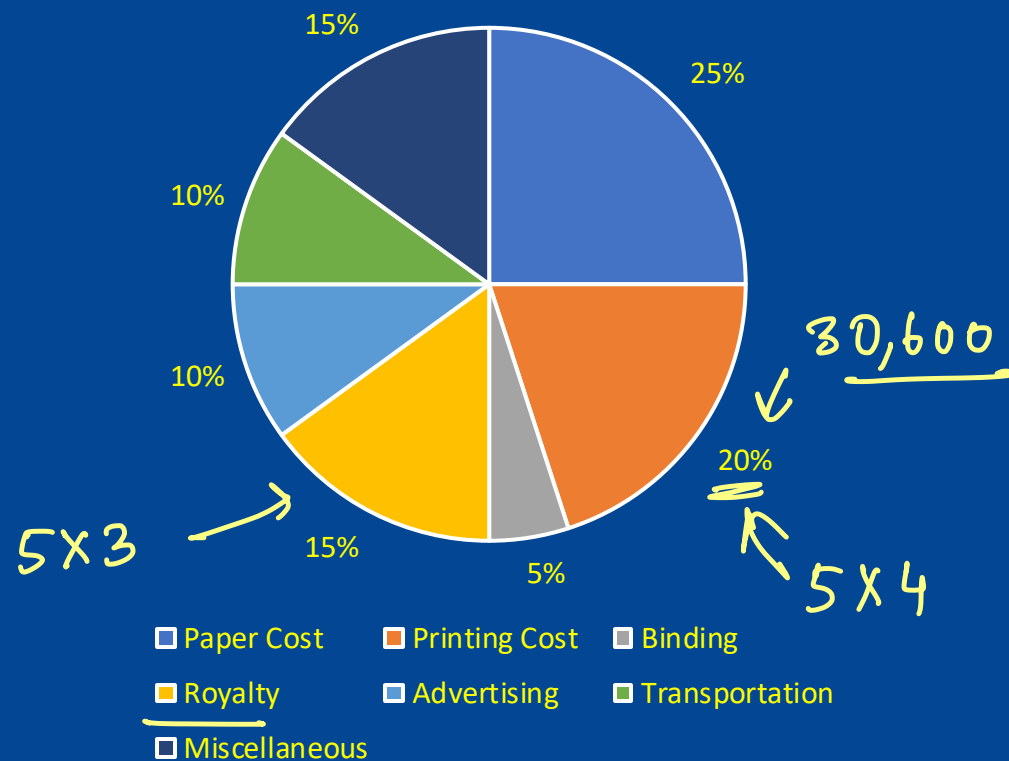
$$\frac{20}{15} = \frac{30600}{x}$$

$$x = \frac{7650}{\cancel{30600} \times \cancel{15}^3}$$

$$= \underline{22950}$$

Pie chart

Expenditures





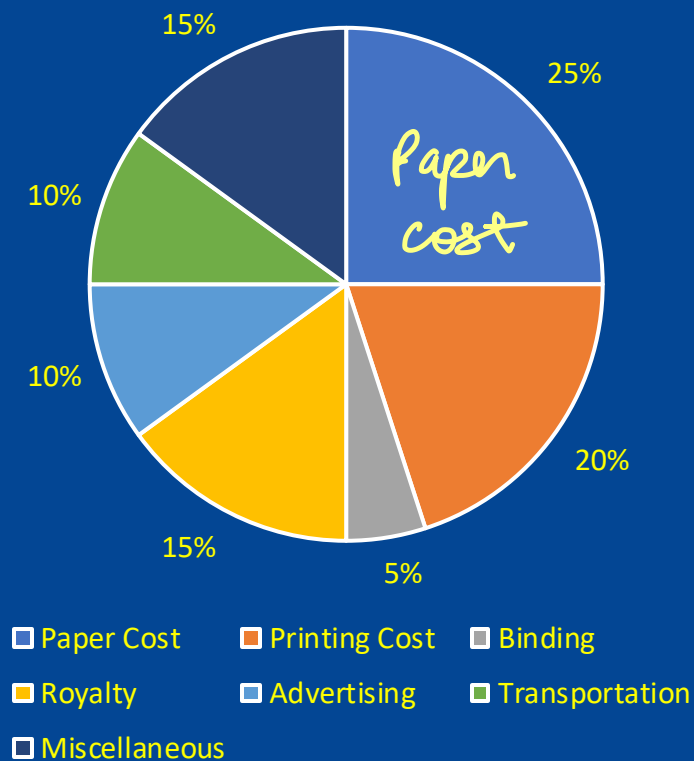
What is the central angle of the sector corresponding to the expenditure incurred on Paper Cost?

- (A) 75°
- ✓ (B) 90°
- (C) 54°
- (D) 48°

$$\frac{1}{\cancel{25}} \times \frac{90}{\cancel{360}} = \underline{\underline{90^\circ}}$$

(Note: The handwritten calculation shows 1/25 crossed out, 90 above 360, and 100/4 below the line, resulting in 90°)

Expenditures



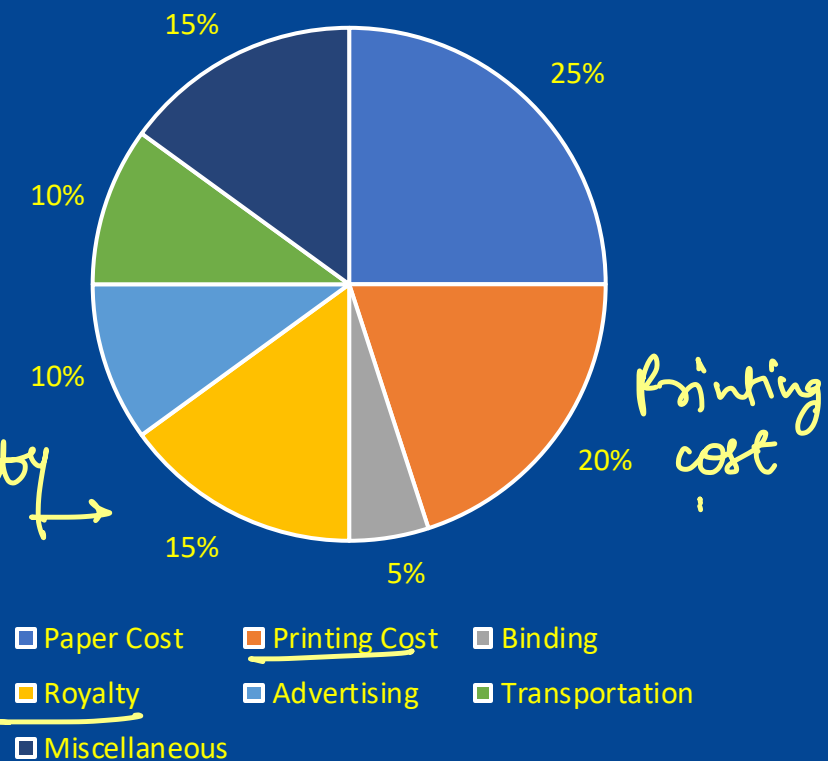


Royalty on the book is less than the Printing cost by what percentage?

- (A) 5%
- (B) 33.31%
- (C) 20%
- (D) 25%

$$\frac{5}{20} \times 100 = 25\%$$

Expenditures



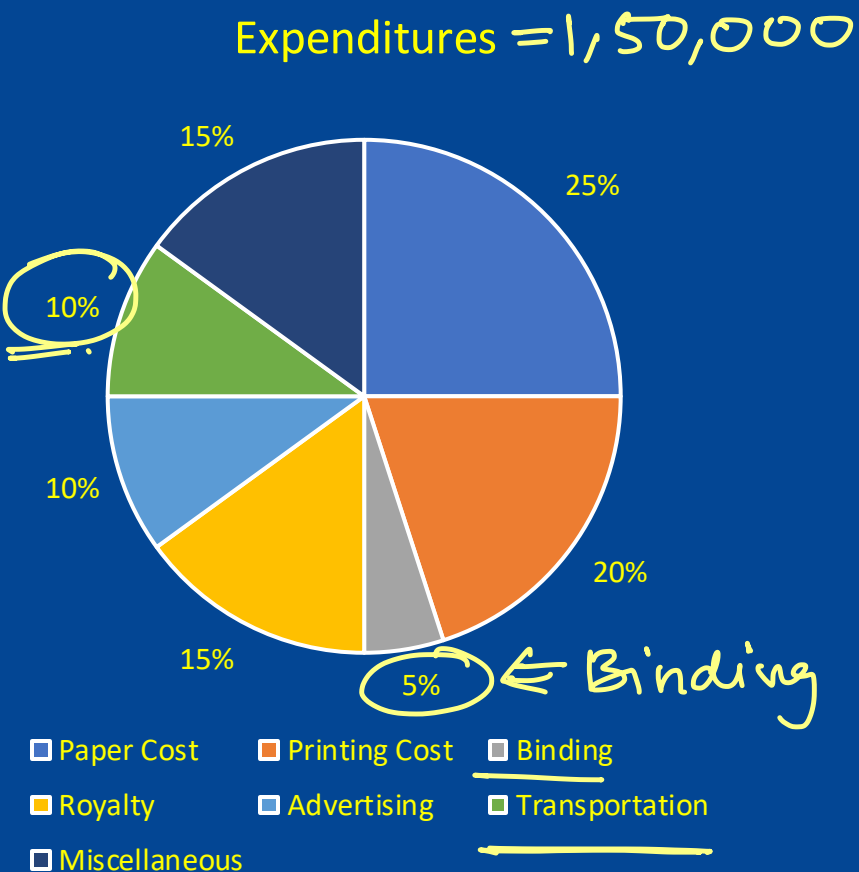


If the total expenditure incurred by the publisher is Rs. 1,50,000, what is the combined expenditure on Binding and Transportation?

- (A) Rs. 15,000
- ✓ (B) Rs. 22,500
- (C) Rs. 25,000
- (D) Rs. 30,000

$$\frac{15}{100} \times 150000$$
$$\underline{22500}$$

Transport



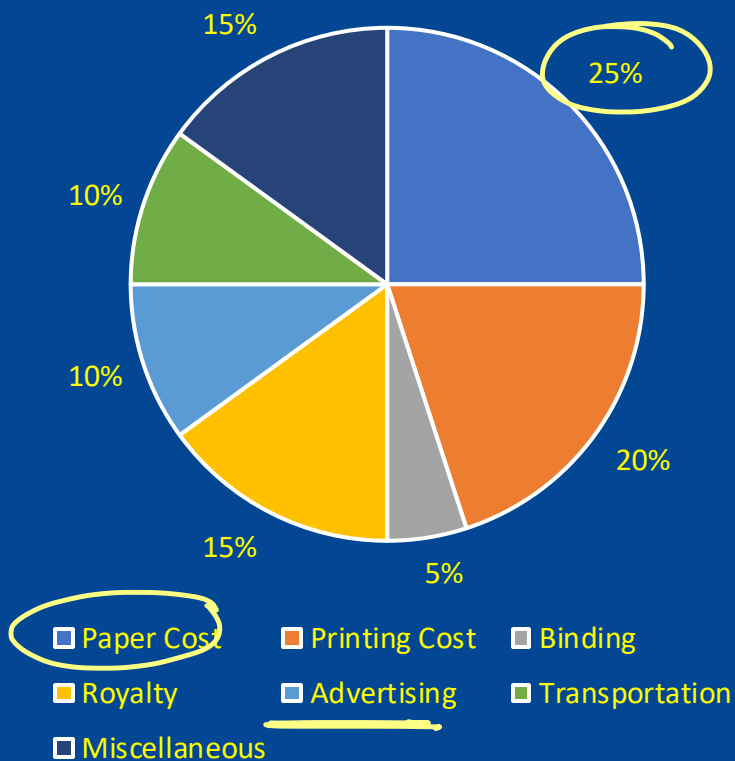


What is the ratio of the expenditure on Paper Cost to the expenditure on Advertising?

- (A) 5:2
- (B) 2:5
- (C) 5:3
- (D) 3:5

$$\frac{25}{10} = \frac{5}{2}$$

Expenditures





$$\frac{20}{100} \times 40000 = \underline{8000}$$

The table below shows the percentage allocation of a family's monthly budget across different categories. The total monthly budget is ₹ 40,000. Answer the questions based on the data.

| Category | Percentage Allocation |
|-----------|-----------------------|
| Food | 30% |
| Rent | 20% |
| Utilities | 10% |
| Transport | 15% |
| Education | 15% |
| Savings | 10% |
| Total | 100% |

How much amount is allocated for Rent per month?

- (A) ₹ 6,000
- ✓ (B) ₹ 8,000
- (C) ₹ 10,000
- (D) ₹ 12,000



$$\frac{45}{100} \times 40000$$

18000

The table below shows the percentage allocation of a family's monthly budget across different categories. The total monthly budget is ₹ 40,000. Answer the questions based on the data.

| Category | Percentage Allocation |
|-----------|-----------------------|
| Food | 30% |
| Rent | 20% |
| Utilities | 10% |
| Transport | 15% |
| Education | 15% |
| Savings | 10% |
| Total | 100% |

What is the total amount allocated for Food and Education combined per month?

(A) ₹ 15,000

(B) ₹ 16,000

(C) ₹ 18,000

(D) ₹ 20,000



$$\frac{15}{100} \times 40000 = 6000$$

The table below shows the percentage allocation of a family's monthly budget across different categories. The total monthly budget is ₹ 40,000. Answer the questions based on the data.

| Category | Percentage Allocation |
|-----------|-----------------------|
| Food | 30% |
| Rent | 20% |
| Utilities | 10% |
| Transport | 15% |
| Education | 15% |
| Savings | 10% |
| Total | 100% |

How much more amount is spent on Food compared to Transport per month?

- (A) ₹ 4,000
- (B) ₹ 5,000
- ☒ (C) ₹ 6,000
- (D) ₹ 7,000



$$\frac{10\%}{10\%} = 1:1$$

The table below shows the percentage allocation of a family's monthly budget across different categories. The total monthly budget is ₹ 40,000. Answer the questions based on the data.

| Category | Percentage Allocation |
|-----------|-----------------------|
| Food | 30% |
| Rent | 20% |
| Utilities | 10% |
| Transport | 15% |
| Education | 15% |
| Savings | 10% |
| Total | 100% |

What is the ratio of the amount allocated for Savings to the amount allocated for Utilities?

- ☒ (A) 1:1
(B) 1:2
(C) 2:1
(D) 3:2



$$40000 + 10\% \\ 4050$$

$$= \underline{44000}$$

$$\frac{15}{100} \times 44000 \\ \underline{6600}$$

The table below shows the percentage allocation of a family's monthly budget across different categories. The total monthly budget is ₹ 40,000. Answer the questions based on the data.

| Category | Percentage Allocation |
|-----------|-----------------------|
| Food | 30% |
| Rent | 20% |
| Utilities | 10% |
| Transport | 15% |
| Education | 15% |
| Savings | 10% |
| Total | 100% |

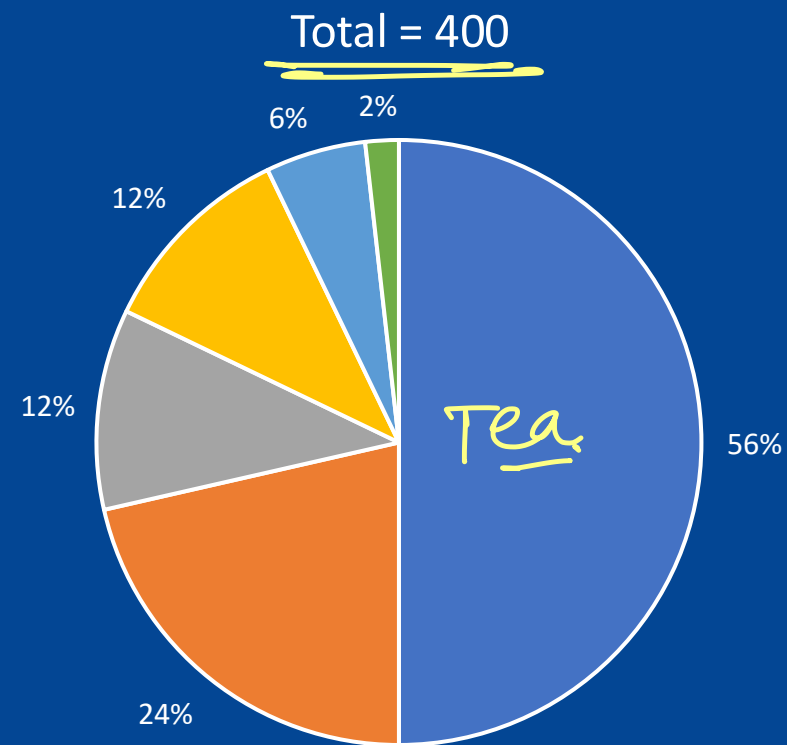
If the total monthly budget increases by 10%, and the percentage allocations remain the same, what will be the new amount allocated for Transport?

- (A) ₹ 6,000
- (B) ₹ 6,600
- (C) ₹ 7,000
- (D) ₹ 7,500



$$\frac{56}{100} \times 400$$

$$= \underline{224}$$



Tea Coffee Milk Cold Coffee Iced Tea Cold Drinks

How many people like Tea?

(A) 200

(B) 212

(C) 224

(D) 230

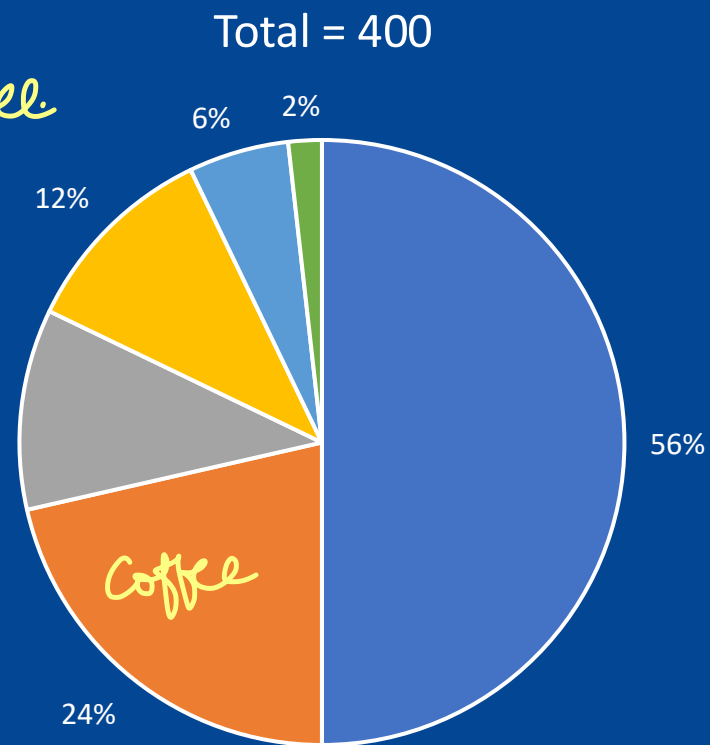


$$\frac{12}{100} \times 400 = \underline{48}$$

Cold Coffee



Coffee



Tea Coffee Milk Cold Coffee Iced Tea Cold Drinks

How many more people like Coffee than Cold Coffee?

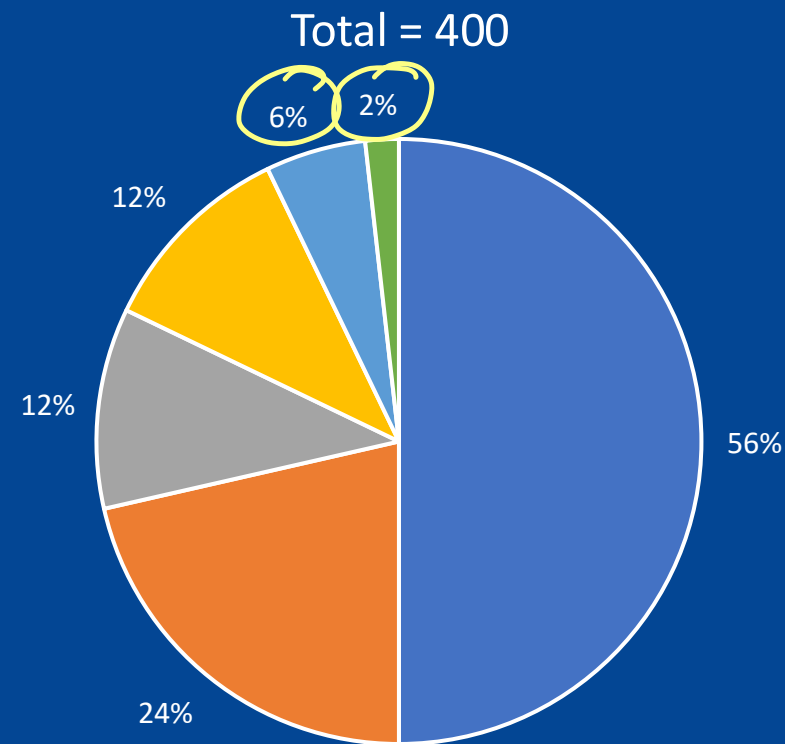
- (A) 40
(B) 48
(C) 52
(D) 60



$$\% \rightarrow ^\circ (\text{degrees}) \Rightarrow \frac{\text{Percent}}{100} \times 360 =$$

$$\frac{-8}{100} \times 360$$

$$\frac{288}{10} = \underline{28.8}$$



Tea Coffee Milk Cold Coffee Iced Tea Cold Drinks

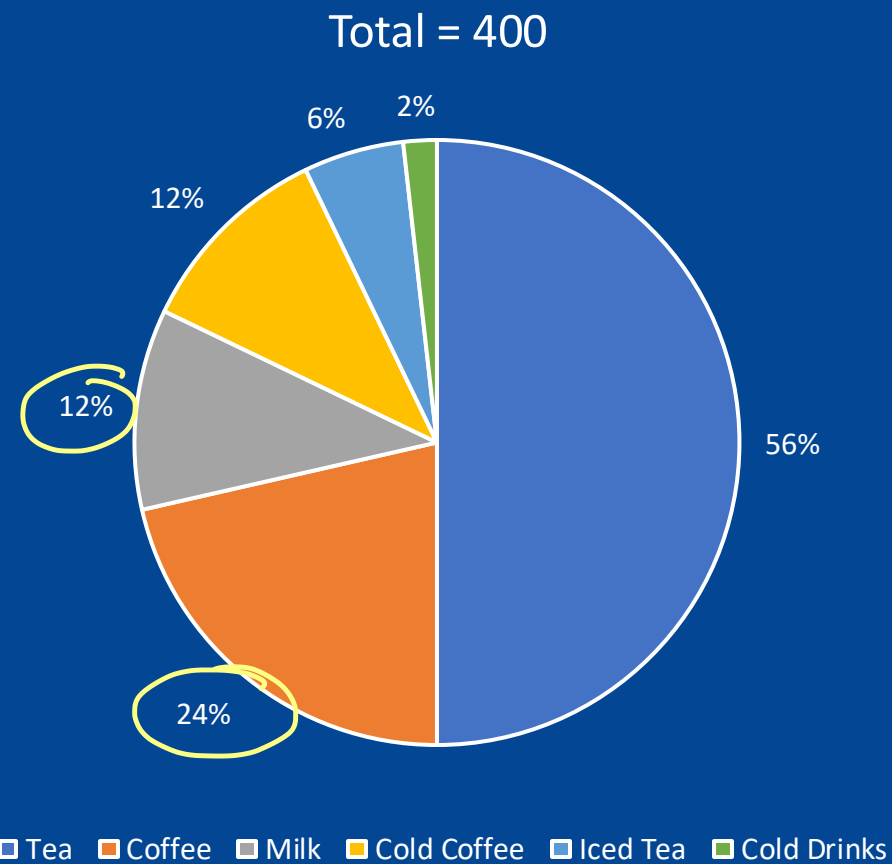
What is the total central angle for the sectors representing Iced Tea and Cold Drinks combined?

(A) 25.2°

(B) 28.8°

(C) 32.4°

(D) 36.0°



What percentage of the total people surveyed like either Milk or Coffee?

- (A) 30%
- ☒ (B) 36%
- (C) 40%
- (D) 44%



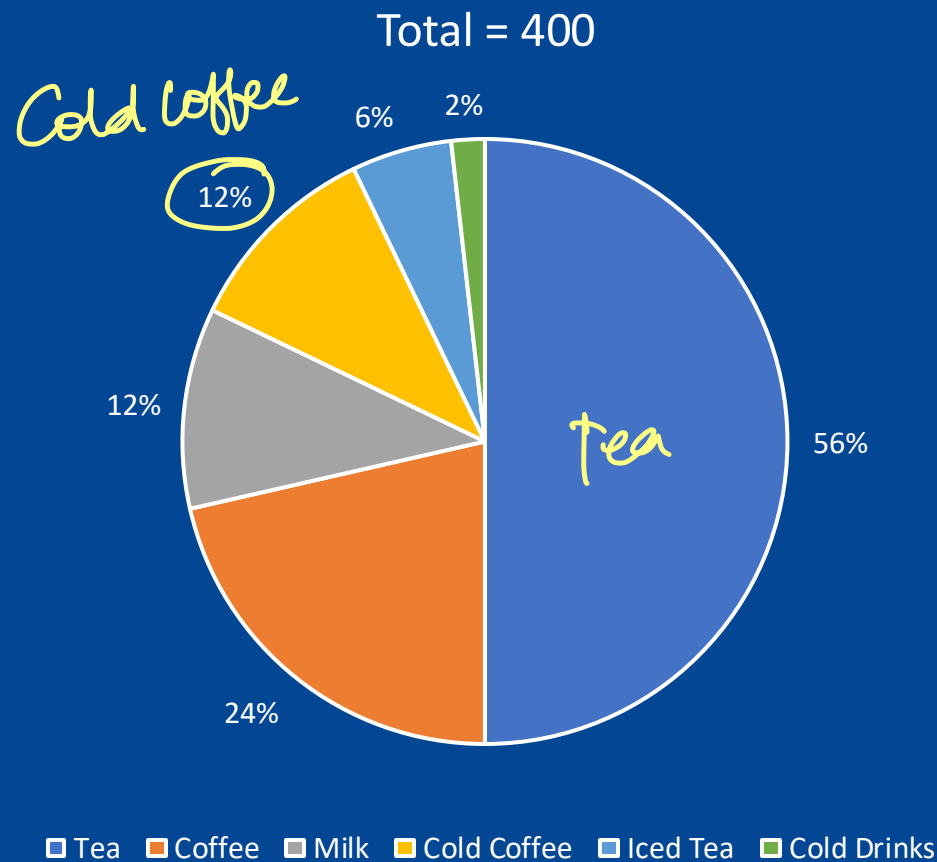
% \rightarrow degrees.

$$\frac{56}{12} = \frac{28}{6} = \frac{14}{3}$$



degree \rightarrow %

$$\frac{\text{Central Angle}}{360} \times 100 = \%$$



What is the ratio of the number of people who like Tea to the number of people who like Cold Coffee?

- (A) 14:3
(B) 12:5
(C) 11:3
(D) 14:5



$$\text{Avg} = \frac{\text{Total of 7}}{7}$$

$$\frac{130}{100} [50+80+60+65+65+75+35]$$

$$\begin{array}{r} 6.14 \\ 130 \times 430 \\ \hline 140 \times 7 \end{array}$$

$$\frac{50}{100} \times 130 =$$

$$\frac{80}{100} \times 130 =$$

$$\frac{60}{100} \times 130 =$$

Study the following table which gives the percentage of marks obtained by seven students in six different subjects in an examination. Answer the questions based on it. The numbers in the brackets give the maximum marks in each subject.

| Student | Maths (150) | Chemistry (130) | Physics (120) | Geography (100) | History (60) | Computer Science (40) |
|---------|-------------|-----------------|---------------|-----------------|--------------|-----------------------|
| Ayush | 90% | 50% | 90% | 60% | 70% | 80% |
| Aman | 100% | 80% | 80% | 40% | 80% | 70% |
| Sajal | 90% | 60% | 70% | 70% | 90% | 70% |
| Rohit | 80% | 65% | 80% | 80% | 60% | 60% |
| Muskan | 80% | 65% | 85% | 95% | 50% | 90% |
| Tanvi | 70% | 75% | 65% | 85% | 40% | 60% |
| Tarun | 65% | 35% | 50% | 77% | 80% | 80% |

What are the average marks obtained by all the seven students in Chemistry (rounded off to two decimal places)?

(A) 75.50

~~(B) 80.14~~

(C) 82.71

(D) 85.00



Study the following table which gives the percentage of marks obtained by seven students in six different subjects in an examination. Answer the questions based on it. The numbers in the brackets give the maximum marks in each subject.

| Student | Maths (150) | Chemistry (130) | Physics (120) | Geography (100) | History (60) | Computer Science (40) |
|---------|----------------|--------------------|------------------|--------------------|--------------|-----------------------------|
| Ayush | 90% ✓ | 50% | 90% | 60% | 70% | 80% |
| Aman | 100% ✓ | 80% | 80% | 40% | 80% | 70% |
| Sajal | 90% ✓ | 60% | 70% | 70% | 90% | 70% |
| Rohit | 80% ✓ | 65% | 80% | 80% | 60% | 60% |
| Muskan | 80% ✓ | 65% | 85% | 95% | 50% | 90% |
| Tanvi | 70% | 75% | 65% | 85% | 40% | 60% |
| Tarun | 65% | 35% | 50% | 77% | 80% | 80% |

How many students obtained 80% or more marks in Mathematics?

- (A) 2
- (B) 3
- (C) 4
- (D) 5





84.5

$$\frac{80}{100} \times 150 + \frac{65}{100} \times 130 + \frac{80}{100} \times 120$$

$$+ \frac{80}{100} \times 100 + \frac{60}{100} \times 60 + \frac{60}{100} \times 40$$

$$= 120 + 96 + 80 + 36 + 24 + 84.5$$

$$= 440.5$$

Study the following table which gives the percentage of marks obtained by seven students in six different subjects in an examination. Answer the questions based on it. The numbers in the brackets give the maximum marks in each subject.

| Student | Maths (150) | Chemistry (130) | Physics (120) | Geography (100) | History (60) | Computer Science (40) |
|---------|-------------|-----------------|---------------|-----------------|--------------|-----------------------|
| Ayush | 90% | 50% | 90% | 60% | 70% | 80% |
| Aman | 100% | 80% | 80% | 40% | 80% | 70% |
| Sajal | 90% | 60% | 70% | 70% | 90% | 70% |
| Rohit | 80% | 65% | 80% | 80% | 60% | 60% |
| Muskan | 80% | 65% | 85% | 95% | 50% | 90% |
| Tanvi | 70% | 75% | 65% | 85% | 40% | 60% |
| Tarun | 65% | 35% | 50% | 77% | 80% | 80% |

~~Count the number of such students. There are 5 students.~~

~~22.~~ What were the aggregate marks obtained by Rohit in all the six subjects?

(A) 401.5

(B) 415.0

(C) 425.5

(D) 430.0

e. 440.5



Study the following table which gives the percentage of marks obtained by seven students in six different subjects in an examination. Answer the questions based on it. The numbers in the brackets give the maximum marks in each subject.

| Student | Maths (150) | Chemistry (130) | Physics (120) | Geography (100) | History (60) | Computer Science (40) |
|---------|----------------|--------------------|------------------|--------------------|--------------|-----------------------------|
| Ayush | 90% | 50% | 90% | 60% | 70% | 80% |
| Aman | 100% | 80% | 80% | 40% | 80% | 70% |
| Sajal | 90% | 60% | 70% | 70% | 90% | 70% |
| Rohit | 80% | 65% | 80% | 80% | 60% | 60% |
| Muskan | 80% | 65% | 85% | 95% | 50% | 90% |
| Tanvi | 70% | 75% | 65% | 85% | 40% | 60% |
| Tarun | 65% | 35% | 50% | 77% | 80% | 80% |

In which subject is the overall average percentage mark the lowest?

- (A) Chemistry
- (B) History
- (C) Physics
- (D) Geography



$$\frac{465}{6} = 77.5$$

Study the following table which gives the percentage of marks obtained by seven students in six different subjects in an examination. Answer the questions based on it. The numbers in the brackets give the maximum marks in each subject.

| Student | Maths (150) | Chemistry (130) | Physics (120) | Geography (100) | History (60) | Computer Science (40) |
|---------|-------------|-----------------|---------------|-----------------|--------------|-----------------------|
| Ayush | 90% | 50% | 90% | 60% | 70% | 80% |
| Aman | 100% | 80% | 80% | 40% | 80% | 70% |
| Sajal | 90% | 60% | 70% | 70% | 90% | 70% |
| Rohit | 80% | 65% | 80% | 80% | 60% | 60% |
| Muskan | 80% | 65% | 85% | 95% | 50% | 90% |
| Tanvi | 70% | 75% | 65% | 85% | 40% | 60% |
| Tarun | 65% | 35% | 50% | 77% | 80% | 80% |

What is the overall percentage obtained by Muskan?

- (A) 75.0%
- (B) 78.2%
- (C) 76.8%
- (D) 79.5%

} .. e- 77.5

SUPER BUNDLE

visit: updatestoday.in

- ✓ 12 Sectional Mock Tests
- ✓ 13 Full Length Mock Tests
- ✓ PYQs Solution Booklet
- ✓ GK & Current Affairs Bundle

Rs. 699 ~~Rs. 948~~



Scan QR Code to Enroll Now



INVINCIBLE 2.0
MAH CET BBA BCA
2025





JOIN US ON  WHATSAPP



SUBS

JOIN US ON  TELEGRAM



FOR MAH CET FOR BBA BBM BMS BCA
& CUET UG PAPER 3 GENERAL TEST