

DATA INTERPRETATION

- 1) Tabular Column** ↗
- 2) Bar Chart**
- 3) Pie Chart**

Sum +

Dif -

$$ANG = \frac{Sum}{NU} -$$

% A. B.

Ratios 1:△

The Table shows the number of T-20 matches played, runs scored, 50s and 100s scored by four Indian batsmen in a particular year.

Player	Matches played	Runs scored	50s	100s
Virat	16	900	4	3
Rohit	20	840	5	1
Shikhar	25	1050	6	2
Suresh	12	450	4	0

$$\begin{array}{l} R \\ \hline u_2 \\ \overline{840} \\ \hline 12 \\ u_2 \\ \hline \end{array}$$
$$S \quad 210 \quad u_2$$
$$\underline{1050}$$
$$28$$
$$8$$
$$u_2$$
$$u_2 - u_2 = 0$$

The difference between average runs per match scored by Shikhar and average runs per match scored by Rohit is:

- 1. 1
- 2. 18
- 3. 0
- 4. 20

The Table shows the number of T-20 matches played, runs scored, 50s and 100s scored by four Indian batsmen in a particular year.

Player	Matches played	Runs scored	50s	100s
Virat	16	900	4	3
Rohit	20	840	5	1
Shikhar	25	1050	6	2
Suresh	12	450	4	0

810
820
X

What is the average of the total number of runs scored by all four batsmen together?

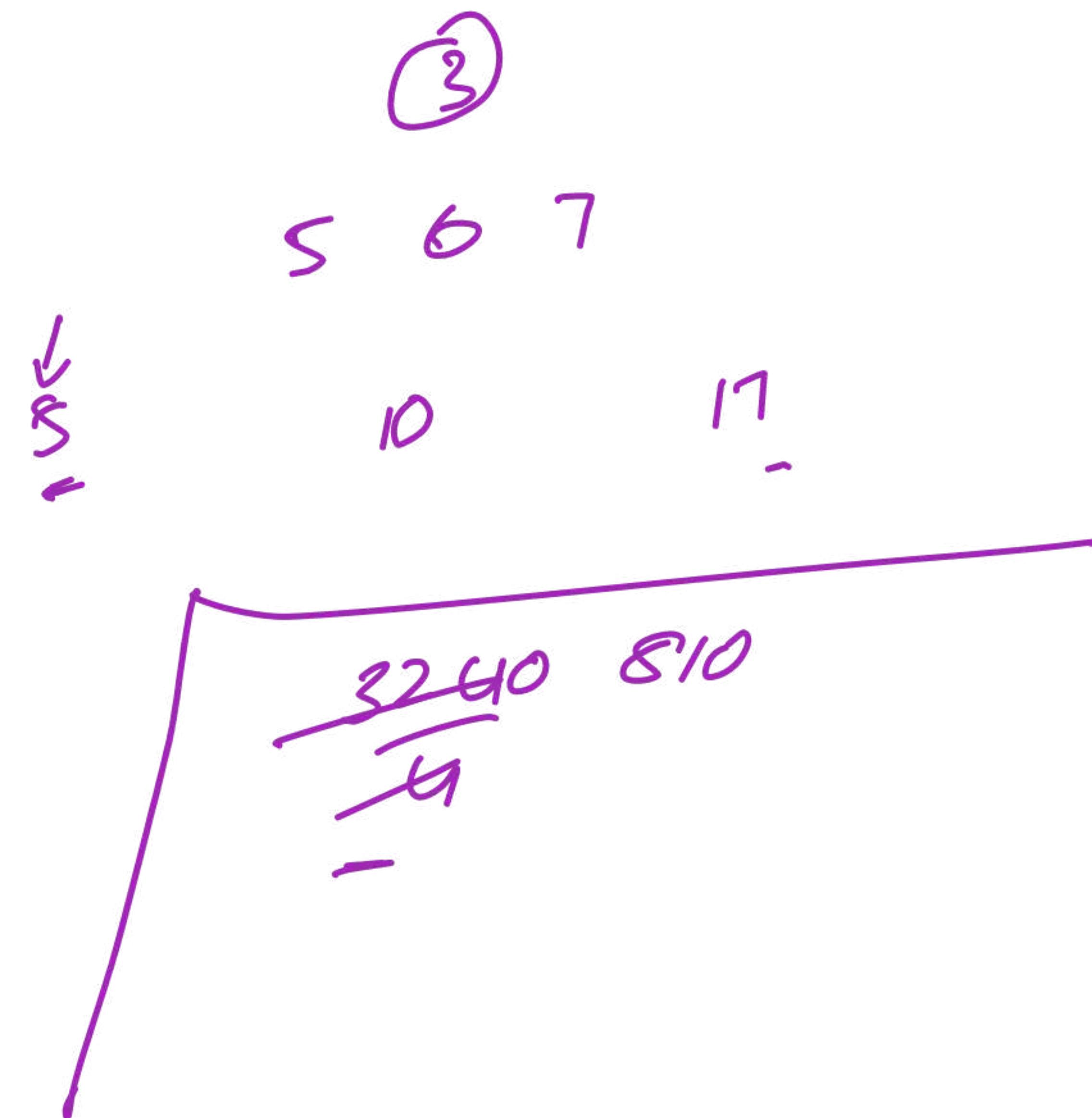
- 1. 820
- 2. 800
- 3. 810
- 4. 790

The Table shows the number of T-20 matches played, runs scored, 50s and 100s scored by four Indian batsmen in a particular year.

Player	Matches played	Runs scored	50s	100s
Virat	16	900	4	3
Rohit	20	840	5	1
Shikhar	25	1050	6	2
Suresh	12	450	4	0

Total number of runs scored by all four batsmen is:

- 1. 3240
- 2. 1620
- 3. 1450
- 4. 1500



The Table given below presents the number of books on different subjects kept on separate shelves. Subjects with odd and even numbers are of Arts and Science respectively.

Subjects	Number of books
S1	26
S2	29
S3	31
S4	34
S5	36
S6	38
S7	44

$$S_1 : \text{AVG Sub}$$

$$26 : 30$$

$$13 : 17$$

$$\text{AVG} = \frac{\text{SUM}}{\text{NO}} = \frac{30 + 28}{7} = 34$$

$$30 + \cancel{\frac{28}{7}} = \boxed{34}$$

What is the ratio of the number of books of S1 and the average number of books per subject?

- 1. 13 : 17 ✓
- 2. 18 : 13
- 3. 14 : 17
- 4. 14 : 13

$$30 + \frac{-4 - 14 + 1 + 6 + 8 + 14}{7} = 30 + \frac{28}{7} = \boxed{34}$$

The Table given below presents the number of books on different subjects kept on separate shelves. Subjects with odd and even numbers are of Arts and Science respectively.

Subjects	Number of books
S1	26
S2	29
S3	31
S4	34
S5	36
S6	38
S7	44

The number of books of S3 is what percent (correct to one decimal place) of the average number of Science books?

- 1. 92.1
- 2. 91.2
- 3. 93.1
- 4. 90.7



The Table given below presents the number of books on different subjects kept on separate shelves. Subjects with odd and even numbers are of Arts and Science respectively.

Subjects	Number of books
S1	26
S2	29
S3	31
S4	34
S5	36
S6	38
S7	44

$$\frac{31}{\text{Avg}} \times 100 \quad \% \\ 2$$

$$\frac{101}{3}$$

The number of books of S3 is what percent (correct to one decimal place) of the average number of Science books?

- 1. 92.1
- 2. 91.2
- 3. 93.1
- 4. 90.7

$$= \frac{31}{101} \times 3 \times 100 = \frac{9300}{101}$$

$$101 \overline{)9300} \\ 909 \\ \hline 210 \\ 202 \\ \hline 80$$

The Table given below presents the number of books on different subjects kept on separate shelves. Subjects with odd and even numbers are of Arts and Science respectively.

Subjects	Number of books
S1	26
S2	29
S3	31
S4	34
S5	36
S6	38
S7	44

$$A : S$$

$$137 : 101$$

What is the ratio of the total number of books on Arts to that of Science?

- 1. 141 : 97
- 2. 145 : 93
- 3. 137 : 101
- 4. 149 : 89

The Table given below presents the marks obtained by three students in five examinations.

Exams	S1	S2	S3
E1	80	84	85
E2	72	91	99
E3	99	80	82
E4	96	95	93
E5	87	86	84

$$\frac{87 - 80}{80} \times 100 = \frac{7}{80} \times 100$$

$$\frac{7}{80} \times 100 = \frac{20}{8}$$

The marks obtained by S1 in Exam E5 is how much percentage (correct up to two places of decimal) more than that obtained by S2 in Exam E3?

- 1. 9.75
- 2. 8.75
- 3. 9.26
- 4. 10.24

The Table given below presents the marks obtained by three students in five examinations.

Exams	S1	S2	S3
E1	80	84	85
E2	72	91	99
E3	99	80	82
E4	96	95	93
E5	87	86	84

Q43

2

$$\begin{array}{r} 88 \\ \hline 143 \\ \hline 8 \end{array}$$

What is the average of marks obtained by S3 per exam?

- 1. 84.6
- 2. 88.6
- 3. 82.6
- 4. 86.6

The Table given below presents the marks obtained by three students in five examinations.

Exams	S1	S2	S3
E1	80	84	85
E2	72	91	99
E3	99	80	82
E4	96	95	93
E5	87	86	84

$$\begin{array}{r} 96 \\ 84 \\ 82 \\ \hline 84 \\ \hline 346 \end{array}$$

What is the sum of marks obtained by S1 in Exam E4, S2 in Exam E1, S3 in Exam E3 and E5?

- 1. 346
- 2. 326
- 3. 366
- 4. 306

The Table given below presents the Rainfall (in mm) in two cities on different days of a week.

Days	Rainfall (in mm)	
	City 1	City 2
D1	82	81.6
D2	78	79.4
D3	76.2	78.3
D4	81.6	77.7
D5	79.4	84
D6	84	83
D7	83.8	82

$$\frac{78 - 77.7}{77.7} \times 100 = \frac{0.3}{77.7} \times 100 = \frac{3}{777} \times 100 = \frac{300}{777} = \frac{259}{777}$$

The rainfall on day D2 in City 1 is how much percent more than the rainfall on day D4 in City 2?

✓ 1. $\frac{100}{259}$

✗ 2. $\frac{1}{260}$

✗ 3. $\frac{100}{777}$

✗ 4. $\frac{5}{13}$

$$= \frac{100}{259}$$

The Table given below presents the Rainfall (in mm) in two cities on different days of a week.

Days	Rainfall (in mm)	
	City 1	City 2
D1	82	81.6
D2	78	79.4
D3	76.2	78.3
D4	81.6	77.7
D5	79.4	84
D6	84	83
D7	83.8	82

$$\begin{array}{r}
 \underline{0.4} \\
 - \underline{1.6} \\
 - 2.1 \\
 \hline
 3.9 \\
 - 4.6 \\
 \hline
 1.8
 \end{array}
 \quad
 \begin{array}{r}
 \underline{6.7} \\
 - \underline{5.1} \\
 \hline
 1.6
 \end{array}
 \quad
 \begin{array}{r}
 \underline{0.14} \\
 - \underline{10} \\
 \hline
 1
 \end{array}$$

What is the difference (correct up to two decimal places) in average rainfall in two cities per day?

- 1. 0.42 mm
- 2. 0.15 mm
- 3. 0.66 mm
- 4. 0.08 mm

The Table shows the number of articles sold by six different sellers (A, B, C, D, E and F) to two different shopkeepers P and Q. Some articles are purchased by other sellers also. Total articles purchased by shopkeepers P and Q is 300 and 500 respectively.

Seller	P	Q
A	45	56
B	53	49
C	28	44
D	38	38
E	35	65
F	55	60

256 312

What is the difference between total articles sold to P and Q by all the sellers other than A, B, C, D, E and F?

X 1. 162

✓ 2. 142 ✓

X 3. 152

X 4. 172

A, B, C, D, E, F \rightarrow

$$\begin{array}{r} \text{P} \\ \text{Q} \\ \hline 300 \\ 500 \\ 256 \\ 312 \\ \hline 46 \\ 188 \end{array}$$

$$\begin{array}{r} 188 \\ 46 \\ \hline 142 \end{array}$$

The Table shows the number of articles sold by six different sellers (A, B, C, D, E and F) to two different shopkeepers P and Q. Some articles are purchased by other sellers also. Total articles purchased by shopkeepers P and Q is 300 and 500 respectively.

Seller	P	Q
A	45	56
B	53	49
C	28	44
D	38	38
E	35	65
F	55	60

$$\begin{array}{r} 41 \\ 165 \\ \hline 55 \end{array}$$

What is the average number of articles sold to shopkeeper P by the sellers A, B, C and D together?

1. 42

2. 41 ✓

3. 44

4. 43

The Table shows the number of articles sold by six different sellers (A, B, C, D, E and F) to two different shopkeepers P and Q. Some articles are purchased by other sellers also. Total articles purchased by shopkeepers P and Q is 300 and 500 respectively.

Seller	P	Q
A	45	56
B	53	49
C	28	44
D	38	38
E	35	65
F	55	60

44

55

$$\frac{44}{55} \times 100 = 80\%$$

Total number of articles sold by seller C to shopkeeper Q is what percent of total number of articles sold by seller F to shopkeeper P?

- 1. 80%
- 2. 84%
- 3. 75%
- 4. 78%

more
less

The Table shows the Number of Laptops and Desktops manufactured by a company.

Year	2008	2009	2010	2011	2012
Laptops	14400	20500	12800	16400	18600
Desktops	12800	24700	19200	20200	14900

45200 36600

What was the difference in the total number of Laptops and Desktops manufactured in 2009 to the total number of Laptops and Desktops manufactured in 2011?

- 1. 8600
- 2. 5600
- 3. 6800
- 4. 8200

$$\begin{array}{r} 45200 \\ 36600 \\ \hline 8600 \end{array}$$

The Table shows the Number of Laptops and Desktops manufactured by a company.

Year	2008	2009	2010	2011	2012
Laptops	14400	20500	12800	16400	18600
Desktops	12800	24700	19200	20200	14900

Approximately what was the percentage decrease in number of desktops manufactured in 2012 from 2011? (correct to nearest integer)

- 1. 30
- 2. 22
- 3. 28
- 4. 26

$$\begin{array}{r} \text{2012} \\ 14900 \\ \hline \text{2011} \\ 20200 \\ \hline \text{5300} \\ \hline \end{array}$$
$$\frac{5300}{20200} \times 100 \approx \frac{53 \times 50}{100} = \frac{2650}{100} = 26.5$$

The Table shows the Number of Laptops and Desktops manufactured by a company.

Year	2008	2009	2010	2011	2012
Laptops	14400	20500	12800	16400	18600
Desktops	12800	24700	19200	20200	14900

2

What is the average number of laptops manufactured by a company from 2008 to 2012?

- 1. 13550
- 2. 16140
- 3. 16540
- 4. 14260

$$\begin{array}{r} 165 \\ \hline 82700 \end{array}$$

Ans: $\frac{82700}{5}$

The Table shows the distribution of the marks obtained by various students in a class. What is the ratio of the number of students getting $\geq 20\%$ in English and $\geq 80\%$ in Hindi to $\geq 40\%$ in English and $\geq 60\%$ in Hindi?

Subject	Marks out of 50 $\rightarrow 100\%$				
	40 and above $\rightarrow 80\%$	30 and above $\rightarrow 60\%$	20 and above $\rightarrow 40\%$	10 and above $\rightarrow 20\%$	0 and above $\rightarrow 0\%$
English \rightarrow	480	1440	3840	4320	4800
Hindi \rightarrow	200	960	3360	3840	4800
Average (Aggregate) \rightarrow	340	1200	3600	4080	4800

\geq 9 - Strong
 \leq 1 - Less

X 1. 107 : 130

$$\begin{array}{r} 4320 \\ 200 \\ \hline 4120 \end{array}$$

X 2. 113 : 130

$$\begin{array}{r} 3840 \\ 960 \\ \hline 2880 \end{array}$$

✓ 3. 113 : 120

$$\begin{array}{r} 226 \\ 226 \\ \hline 0 \end{array} : 120$$

X 4. 107 : 120

$$\begin{array}{r} 113 \\ 113 \\ \hline 0 \end{array} : 120$$

The Table presents the amount of milk (in litres) sold by two milkmen in eight days.

Days	Milkman 1	Milkman 2
1	28	31
2	34	32
3	38	43
4	37	41
5	53	49
6	58	59
7	63	62
8	67	69

$$\begin{array}{r} -3 \\ -2 \\ -5 \\ -1 \\ -4 \\ -1 \\ -1 \\ \hline -2 \end{array}$$

$$\begin{array}{r} -3 \\ -5 \\ -8 \\ \hline -8 \end{array}$$

$$\begin{array}{r} 8 \\ \hline 8 : 1 \end{array}$$

A1 - A2

What is the difference between the average milk sold per day by Milkman 1 and the average milk sold by Milkman 2 per day?

- 1. 2 litre
- 2. 3 litre
- 3. 1 litre ✓
- 4. 4 litre

The Table presents the amount of milk (in litres) sold by two milkmen in eight days.

Days	Milkman 1	Milkman 2
1	28	31
2	34	32
3	38	43
4	37	41
5	53	49
6	58	59
7	63	62
8	67	69

$$\begin{array}{l} A = \frac{34 + 38}{72} \\ B = \frac{62 + 69}{131} \\ B - A = \frac{72}{59} \end{array}$$

If A is the total amount (in litres) of milk sold by milkman 1 in day2 and day3, and B is the total amount (in litres) of milk sold by milkman 2 in day7 and day8 then $(B - A)$ is equal to:

- 1. 59
- 2. 56
- 3. 58
- 4. 57

The Table presents the amount of milk (in litres) sold by two milkmen in eight days.

Days	Milkman 1	Milkman 2
1	28	31
2	34	32
3	38	43
4	37	41
5	53	49
6	58	59
7	63	62
8	67	69

386

386 248
- 138 -
138

386
248
—
138

The total amount of milk (in litres) sold by milkman 2 in all 8 days is what percent (correct to one decimal place) more than the total amount of milk sold by milkman 1 in first six days?

- 1. 55.6
- 2. 57.2
- 3. 56.8
- 4. 58.9

$$\frac{69}{+38} \times 100 = \frac{6900}{120}$$

$$268$$

$$124$$

$$124 \overline{)6900}$$

$$620$$

$$700$$

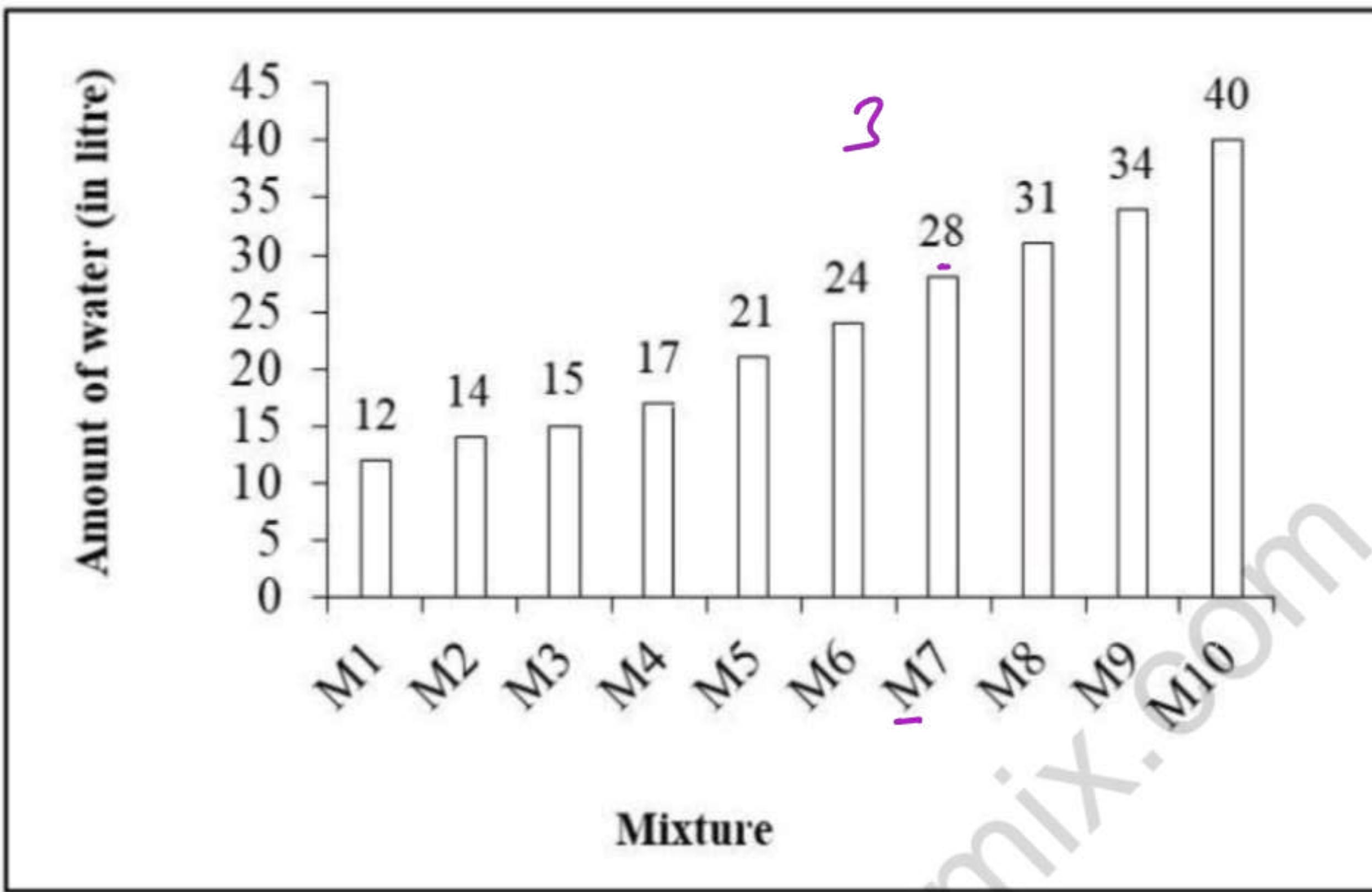
$$620$$

$$800$$

DATA INTERPRETATION

- 1) Tabular Column** ↗
- 2) Bar Chart** ↗
- 3) Pie Chart**

The Bar graph given below presents the amount (volume in litres) of water in ten different mixtures.



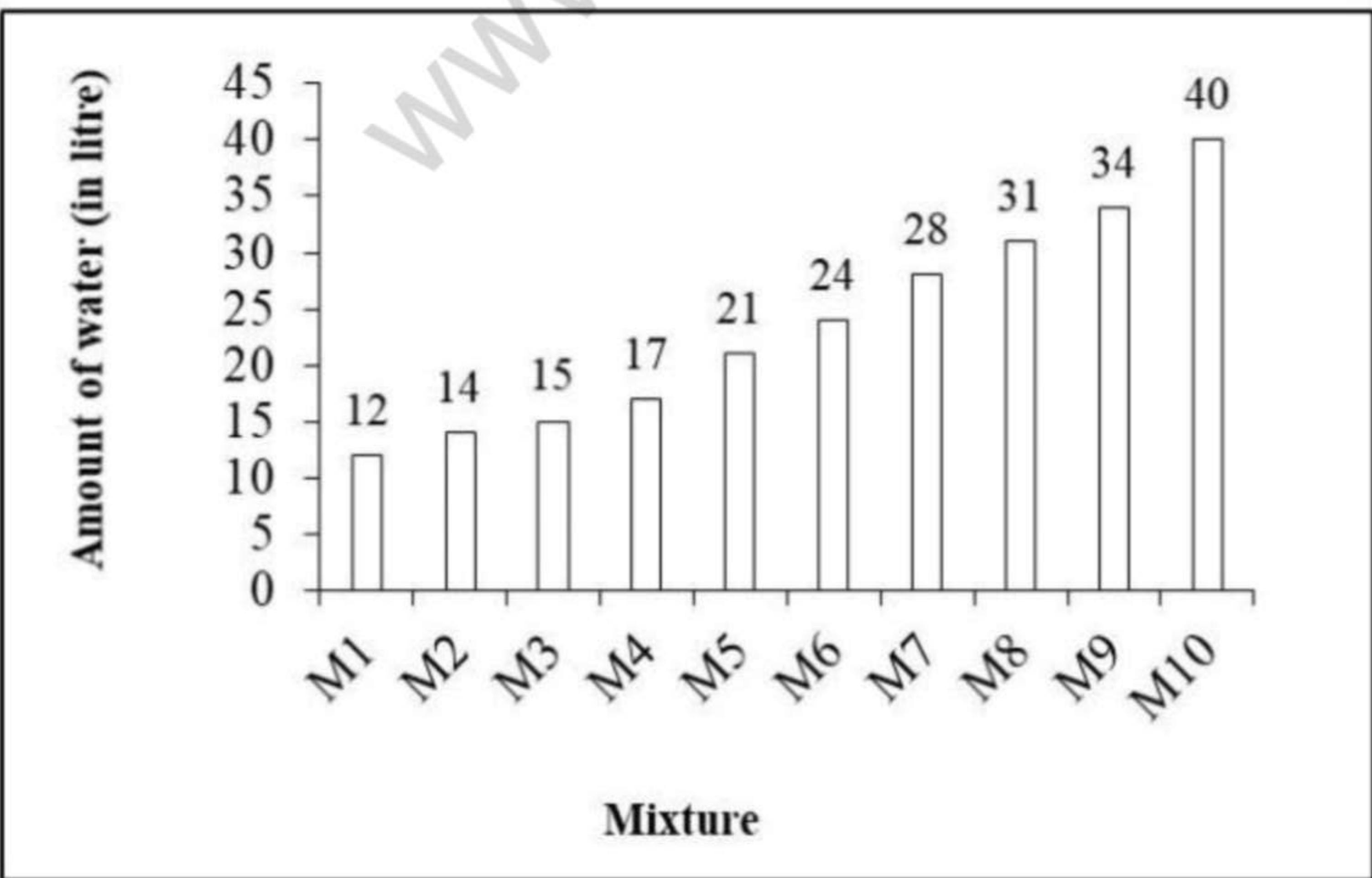
$$\begin{array}{r} 28 \\ 4.4 \\ \hline 23.6 \end{array}$$

$$\frac{23.6}{10} = 2.36$$

The amount of water in mixture M7 is how much more than the average amount of water per mixture?

- 1. 4
- 2. 4.4
- 3. 4.2
- 4. 4.6

The Bar graph given below presents the amount (volume in litres) of water in ten different mixtures.

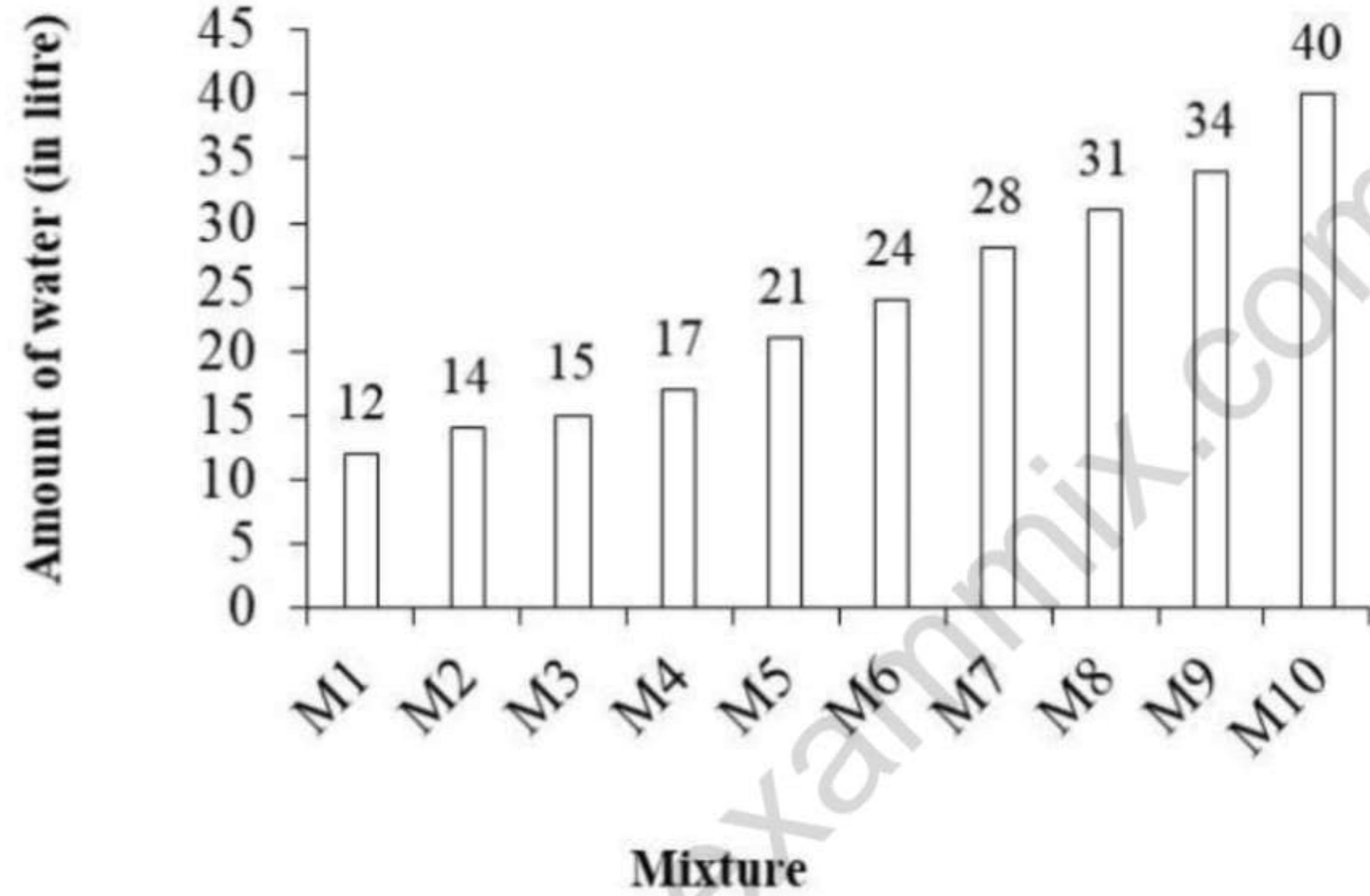


$$\begin{aligned} & 15 \cdot \\ & 24 \cdot \\ & \hline & 155 \\ & 24 \cancel{1} \cancel{5} \\ & \hline & 62 \\ & 2 \cancel{5} \\ & \hline & 62.5 \end{aligned}$$

The amount of water in mixture M3 is what percent of amount of water in mixture M6?

1. 44.5

2. 62.5



23.6

What is the average amount of water per mixture?

- 1. 24.8 litre
- 2. 23.6 litre
- 3. 24.4 litre
- 4. 24 litre

The Bar graph shown below presents the number of employees in an office during eight consecutive years.

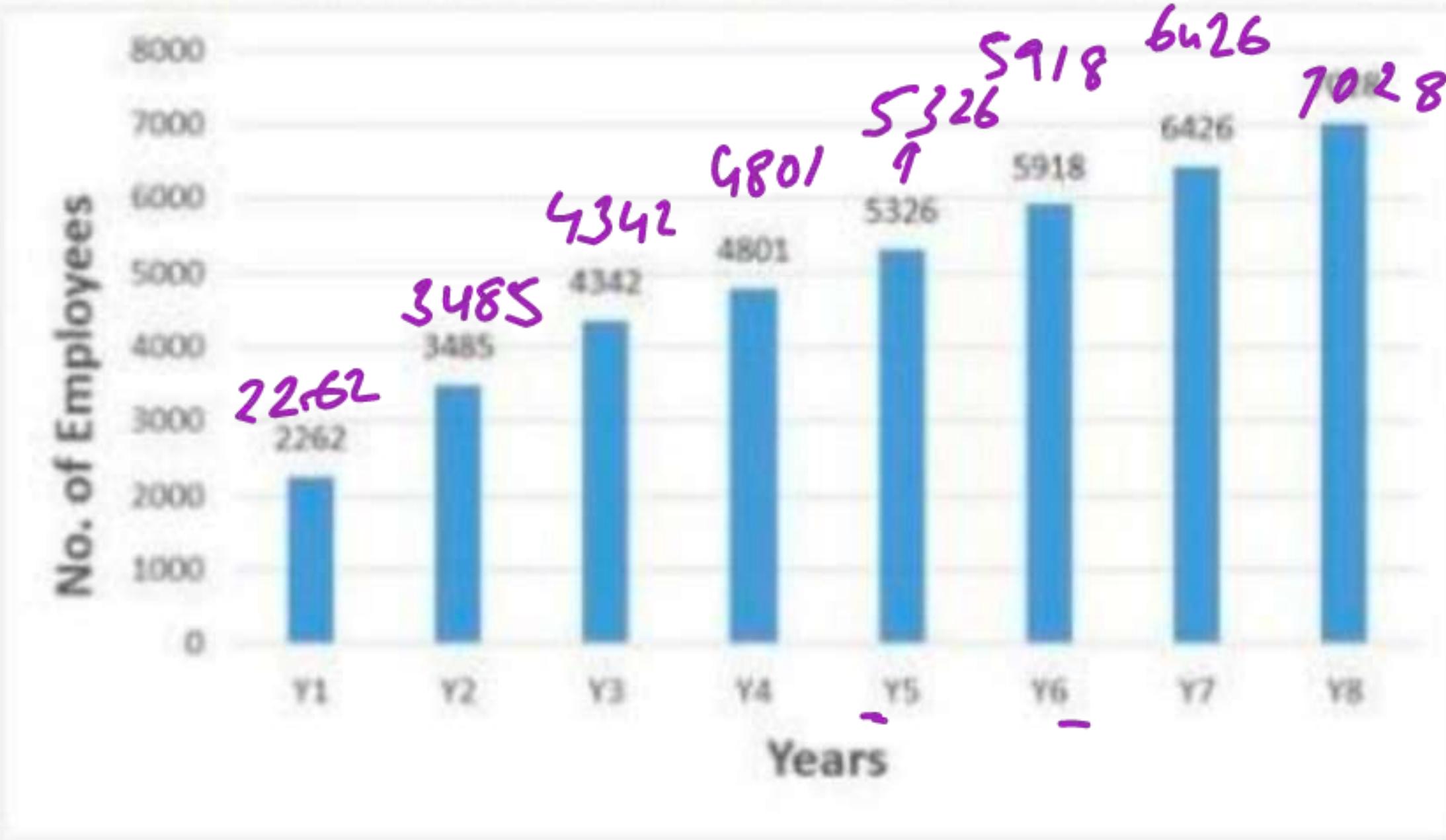


3 2 3
39588
49
~~39588~~
8

What is the average number of employees per year?

- 1. 5148.5
- 2. 5348.5
- 3. 5548.5
- 4. 4948.5

The Bar graph shown below presents the number of employees in an office during eight consecutive years.



$$\frac{5326}{592} \times 100 = 5918$$

$$\frac{5326}{592}$$

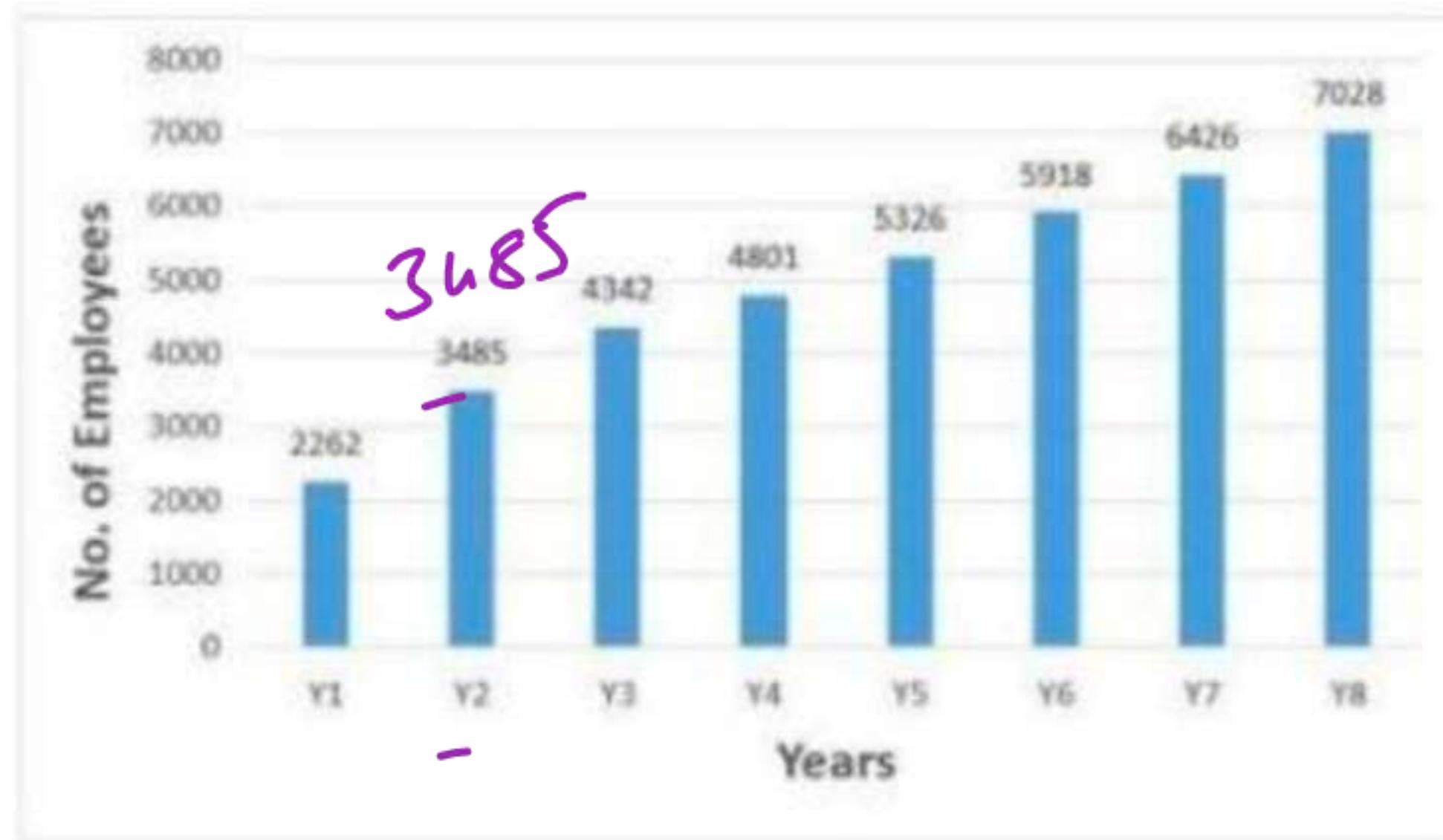
$$\frac{592}{5326} \times 100$$

What is the growth percentage in the number of employees from Y5 to Y6?

- 1. 10.00
- 2. 11.96
- 3. 11.11
- 4. 12.04

$$\frac{5320}{59200} \times 100 = 11.11\%$$
$$\frac{5320}{6000} = 11.11\%$$
$$\frac{5320}{6800} = 11.11\%$$
$$\frac{5320}{5320} = 11.11\%$$

The Bar graph shown below presents the number of employees in an office during eight consecutive years.



$$\begin{array}{c} 3485 \\ - 1463.5 \\ \hline 2021.5 \end{array}$$

Handwritten annotations: "3485" written above the first step, "1463.5" written below the second step, and "2021.5" written below the final result. A bracket underlines the "1463.5" and "2021.5" steps.

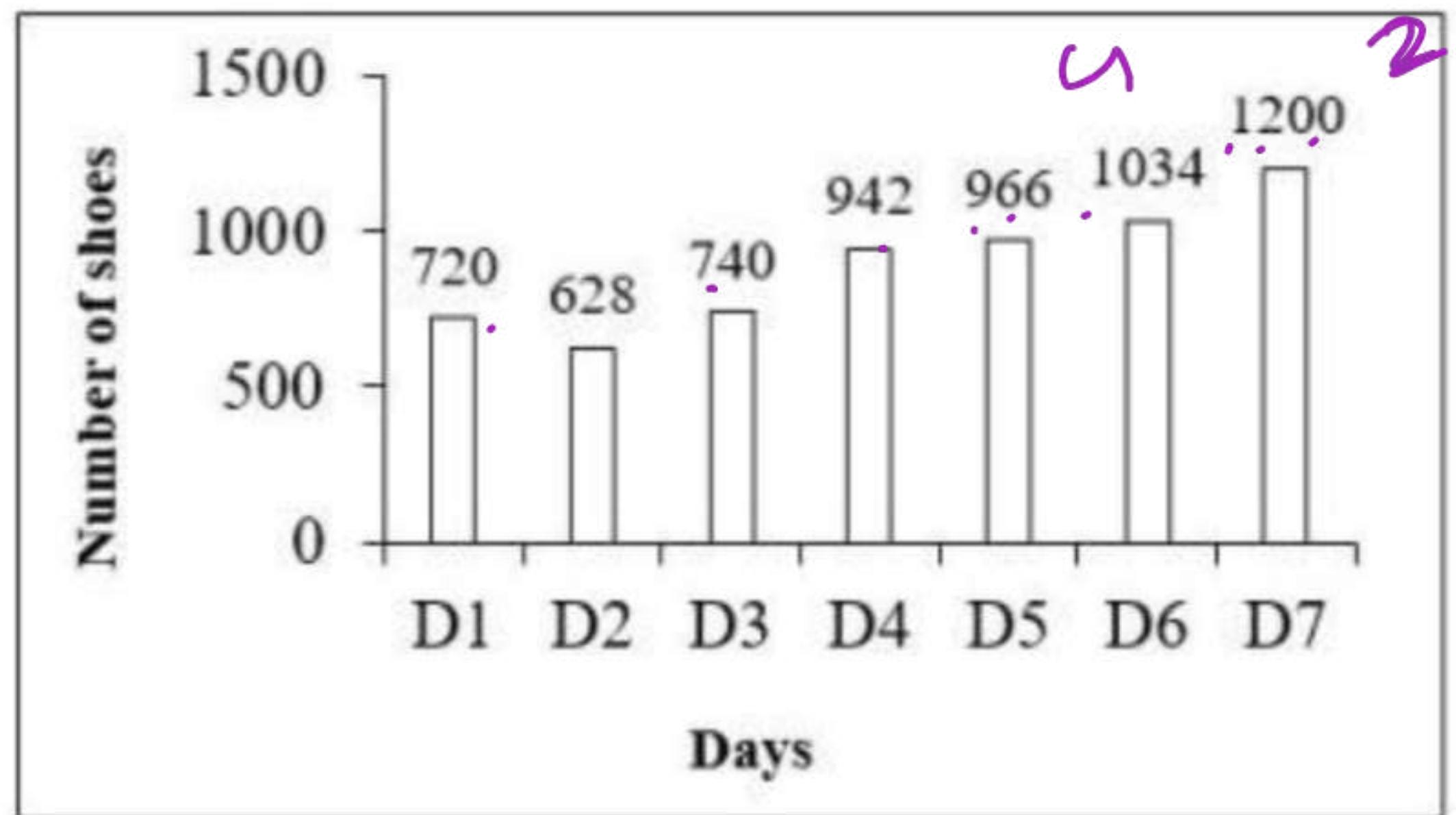
The number of employees in year Y2 is how much percent less than average number of employees per year?

- 1. 29.57%
- 2. 23.57%
- 3. 41.54%
- 4. 35.57%

$$\begin{aligned} & \frac{1}{3} \cdot \frac{1463.5}{1463.5 + 2021.5} \times 100 \\ & = \frac{1}{3} \cdot \frac{1463.5}{3485} \times 100 \\ & = \frac{1}{3} \cdot 41.54\% \end{aligned}$$

Handwritten annotations: "1/3" written above the first fraction, "1463.5" written above the numerator of the first fraction, "1463.5 + 2021.5" written below the denominator of the first fraction, "x 100" written next to the multiplication sign, "25%" written above the second fraction, and "33.3%" written above the final result. A bracket underlines the "1463.5" and "2021.5" terms in the denominator of the first fraction, and another bracket underlines the "25%" and "33.3%" results.

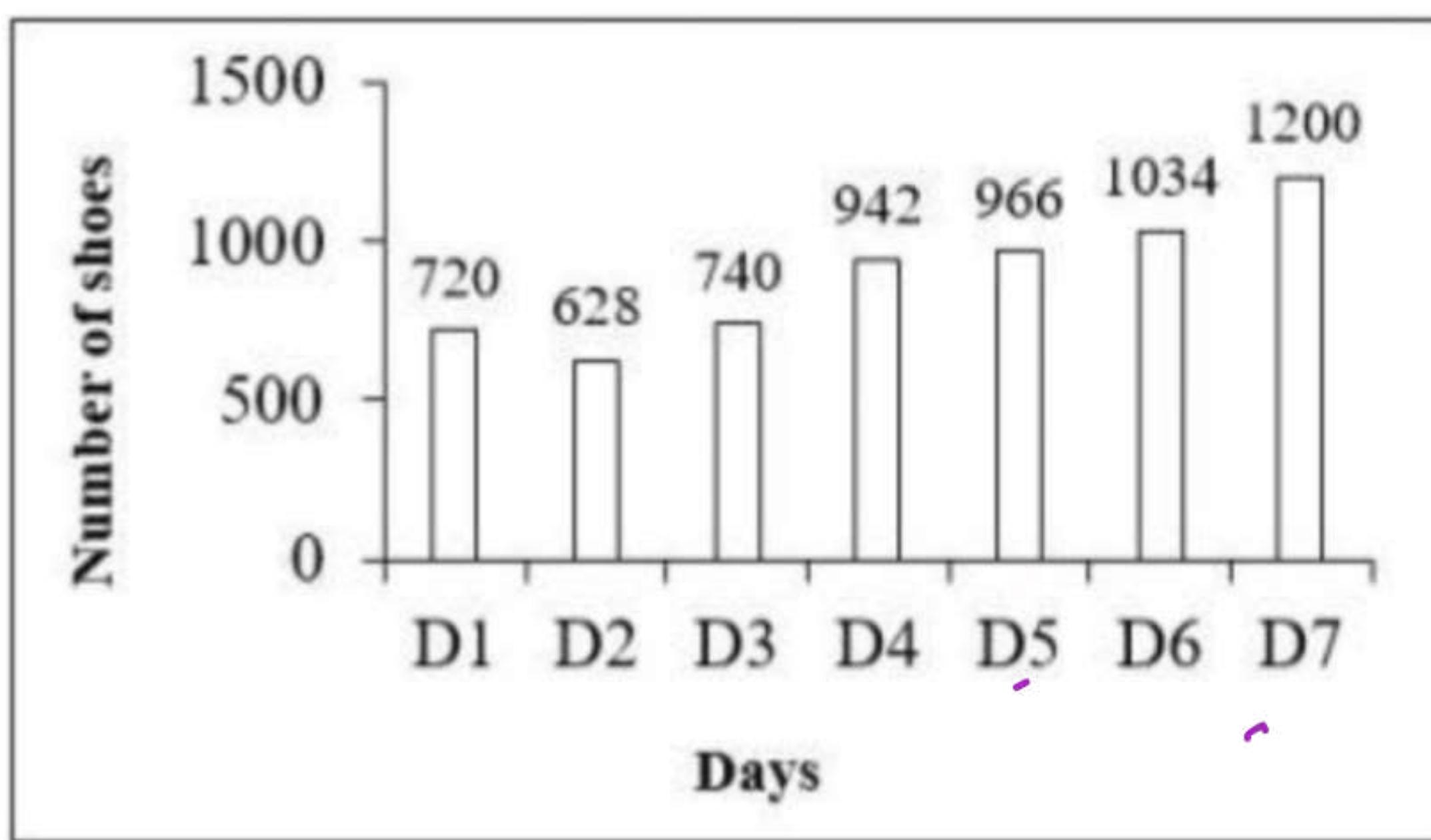
The Bar graph given below presents the number of shoes manufactured by a company on the different days of a week.



What is the total number of shoes manufactured by the company on all seven days together?

- 1. 5930
- 2. 6030
- 3. 6130
- 4. 6230

The Bar graph given below presents the number of shoes manufactured by a company on the different days of a week.



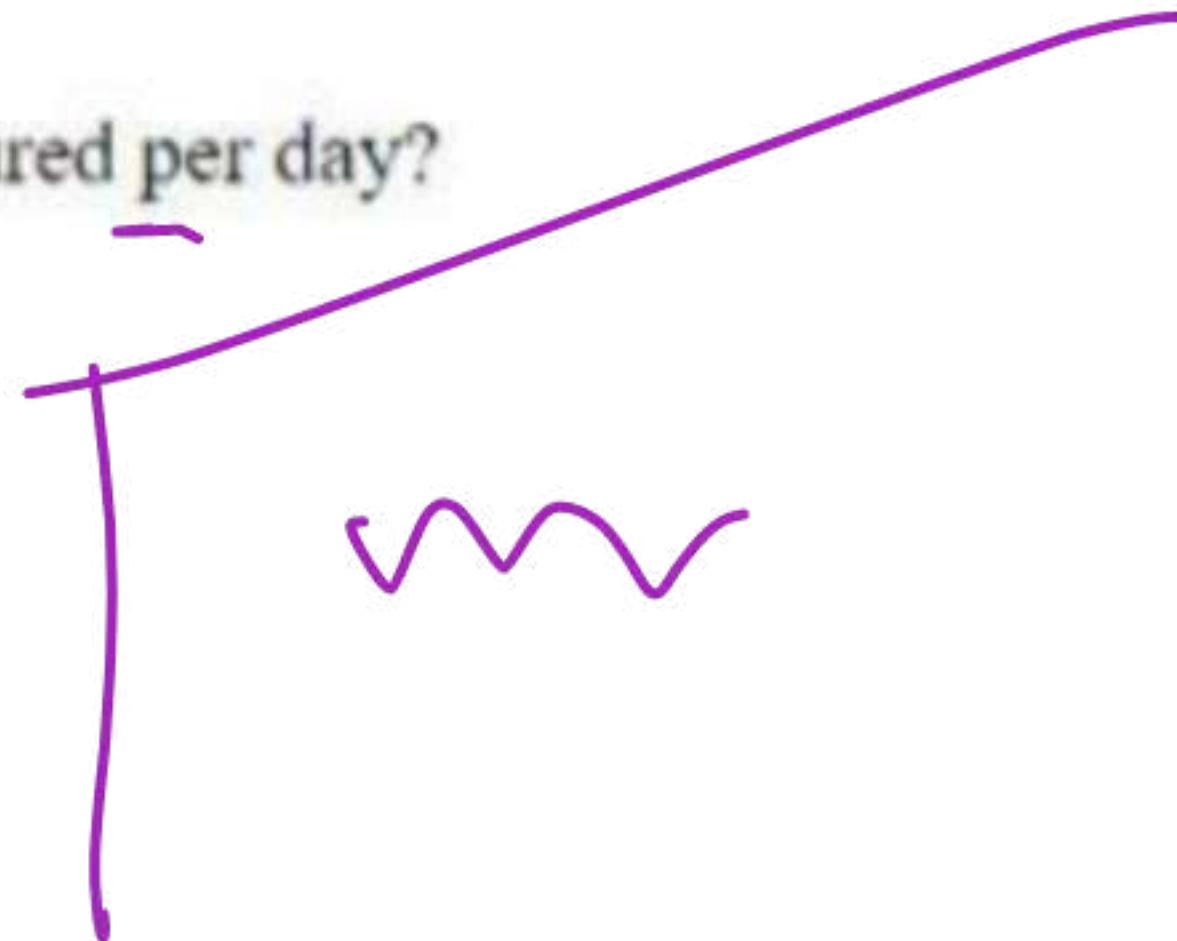
$$\begin{array}{l} DS \\ 966 \\ \hline \end{array}$$
$$\begin{array}{l} AVG \\ 890 \\ \hline \end{array}$$

$$\begin{array}{r} 966 \\ 890 \\ \hline 176 \end{array}$$

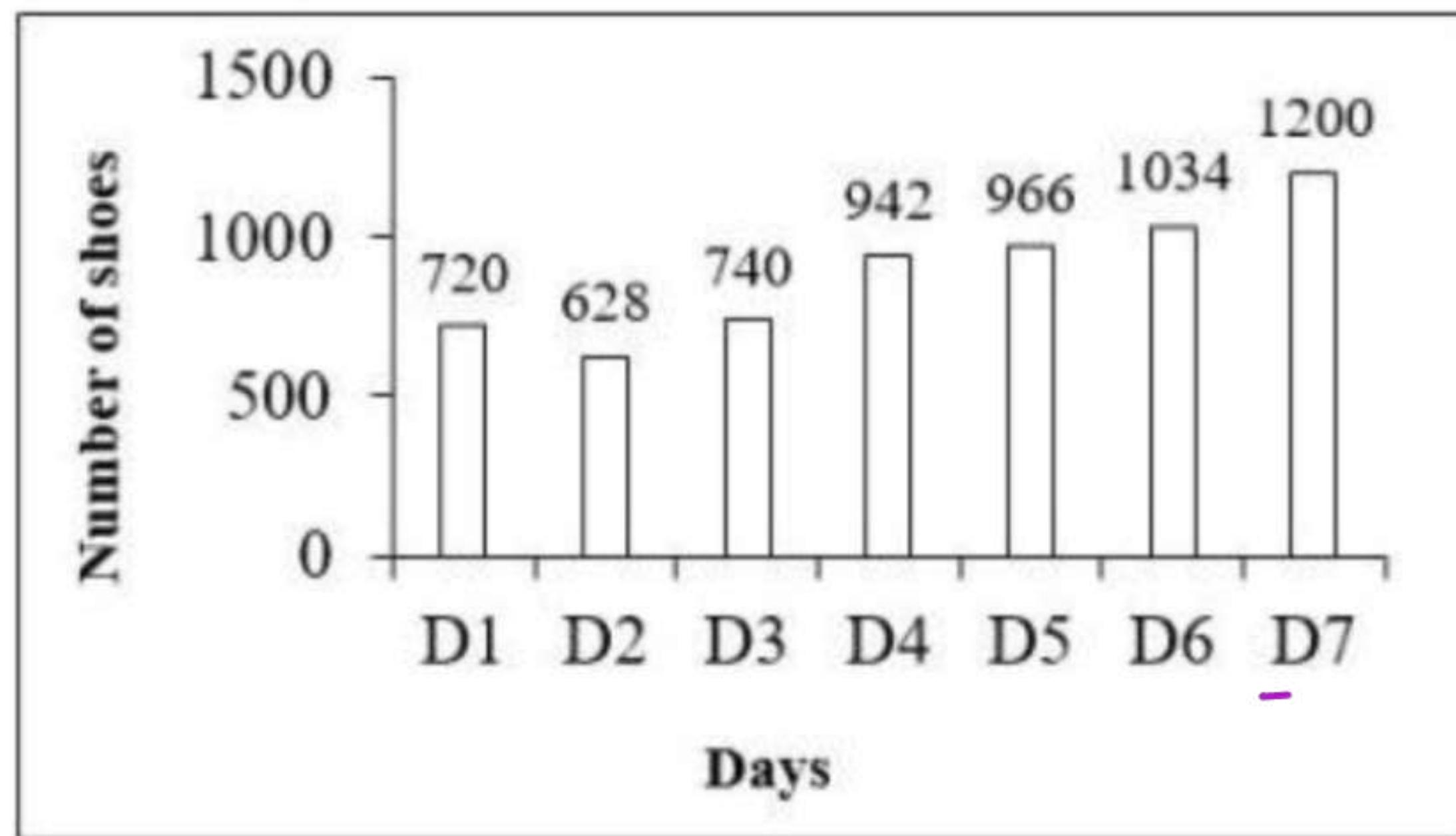
The number of shoes manufactured on D5 is how much more than the average number of shoes manufactured per day?

- 1. 72
- 2. 64
- 3. 76
- 4. 68

$$AVG = \frac{6230}{7}$$



The Bar graph given below presents the number of shoes manufactured by a company on the different days of a week.



$$\begin{aligned} & 720 \quad 1200 \\ & 60 \\ & \overline{1200} \times 100 \\ & = 60\% \end{aligned}$$

The number of shoes manufactured on D1 is what percentage of shoes manufactured on D7?

- 1. 80.45
- 2. 60
- 3. 80
- 4. 70.25

The Bar graph given below presents the number of books sold by a bookseller during different months of a year.



The number of books sold in month M3 is what percent of books sold in month M6?

- 1. 89.45%
- 2. 92.45%
- 3. 95.45%
- 4. 98.45%

$$\frac{297}{332} \times 100 = \frac{29700}{332}$$
$$\frac{297}{332} \times 298.8 = 2656$$

$$332 \sqrt[8]{29100}$$

$$\frac{297}{332} \times 100 = \frac{29700}{332}$$

The Bar graph given below presents the number of books sold by a bookseller during different months of a year.



What is the total number of books sold by the bookseller in the year?

- 1. 4132
- 2. 4032
- 3. 4302
- 4. 4202



$$\begin{array}{r}
 \text{2151} \\
 + 4302 \\
 \hline
 6453 \\
 \end{array}$$

↑
AVG

358.5

The number of books sold in month M8 is how much more than the average number of books sold per month?

- 1. 30.5 ✓
- 2. 26.5
- 3. 22.5
- 4. 34.5

$$\begin{array}{r}
 389.0 \\
 + 358.5 \\
 \hline
 747.5 \\
 \end{array}$$

30.5

The Bar Graph shows the Profit (Rupees in Lakhs) earned by two companies P and Q during the period 2011 to 2017.



- ✓ 1. 2013
- ✗ 2. 2016
- ✗ 3. 2017
- ✗ 4. 2015

In which year company P earns the maximum profit as compared to the previous year?

The Bar Graph shows the Profit (Rupees in Lakhs) earned by two companies P and Q during the period 2011 to 2017.



X 1. 284 : 257

X 2. 257 : 284

X 3. 284 : 279

✓ 4. 279 : 284

P - Q

279 : 284

279 : 284

The ratio of average profit during the given period for Company P to Company Q is:

$$\text{Ratio} = \frac{\text{Sum P}}{7} : \frac{\text{Sum Q}}{7}$$

The bar chart shows the annual food grain production (in million tonnes) for years 2012-2017. For how many years is the production less than the average production during the given period?



$$\text{AVG} = \frac{3000 + 18000}{6} = 3000$$

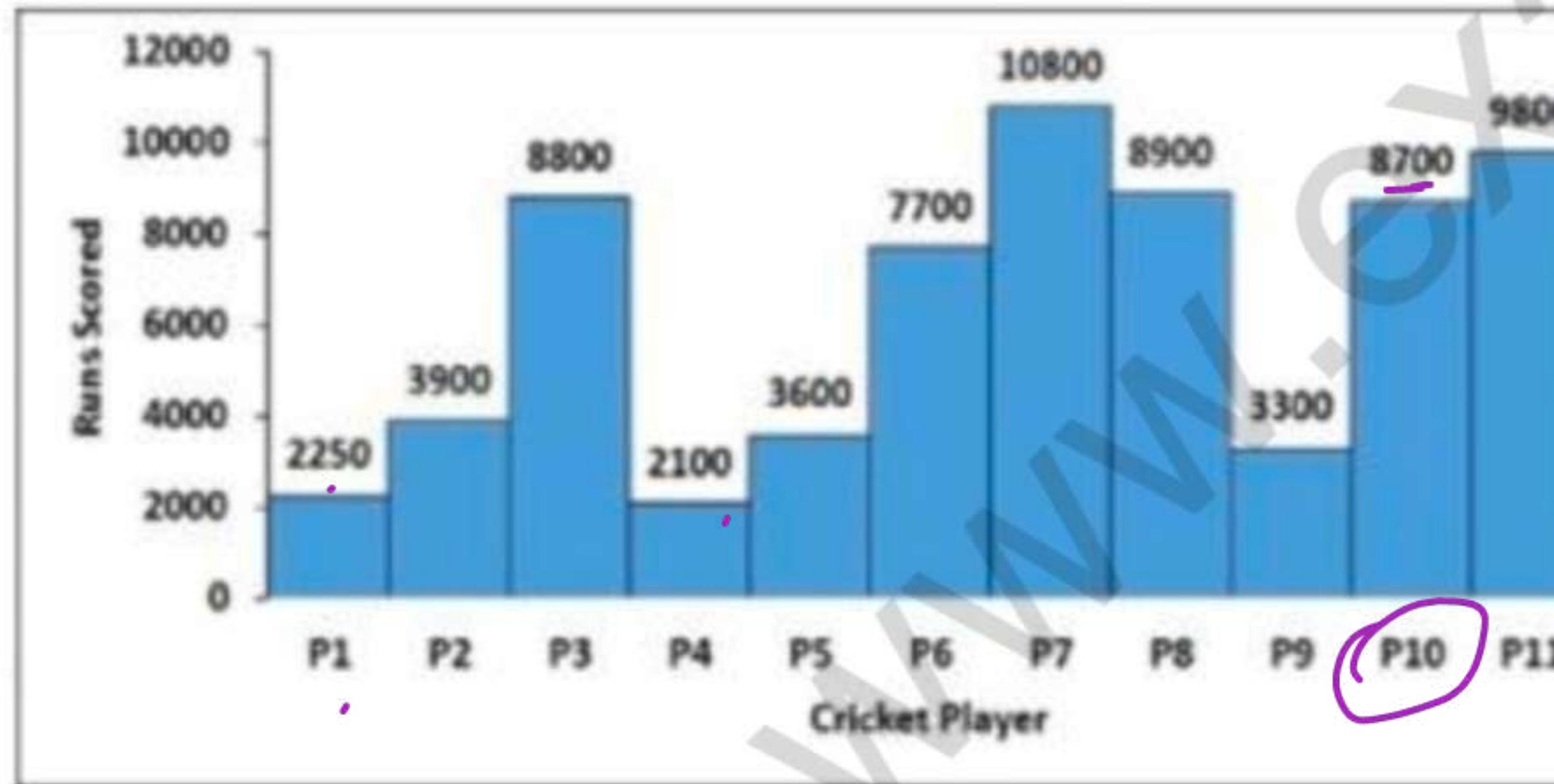
X 1. 1

X 2. 3

✓ 3. 2 ✓

X 4. 4

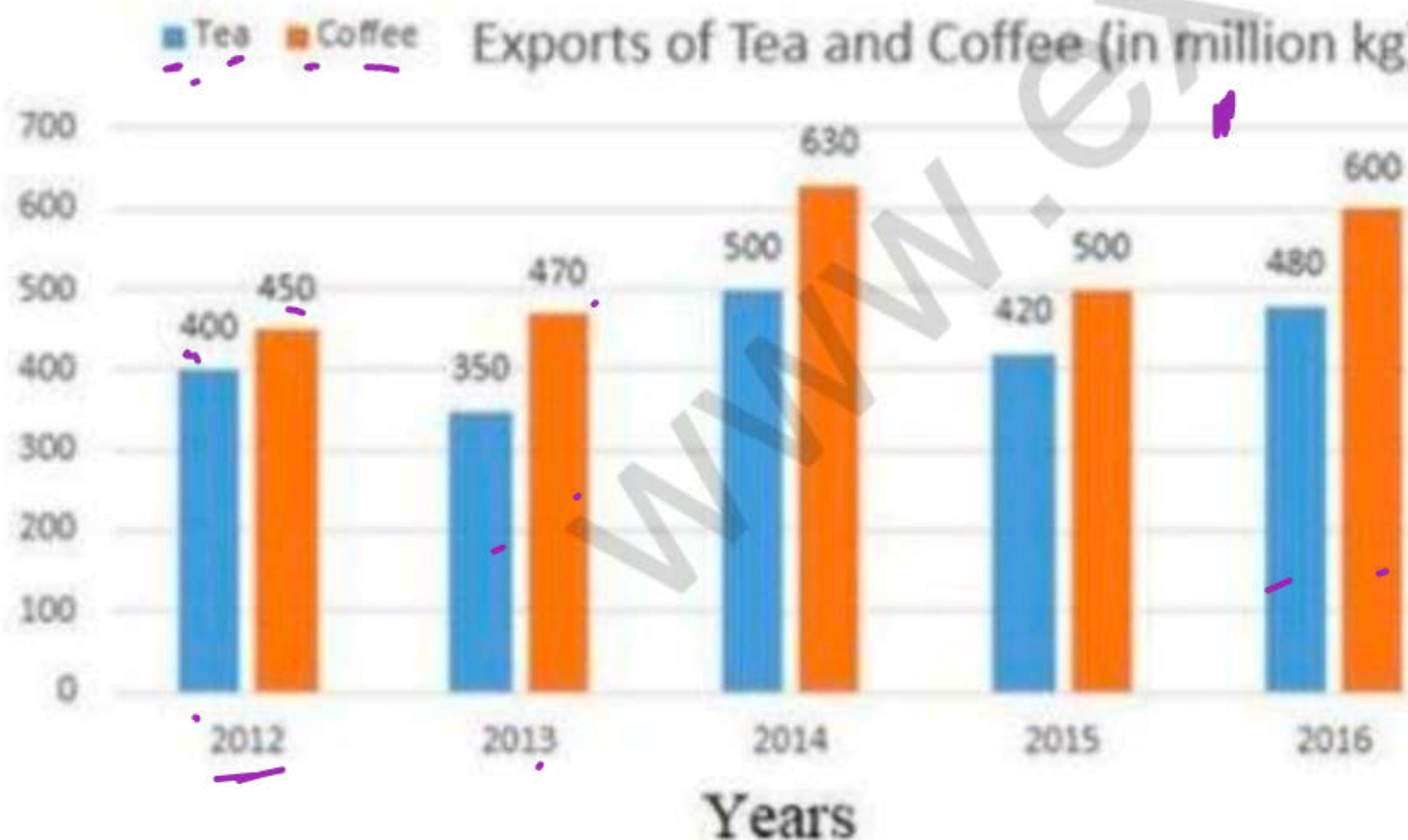
The Bar graph given below presents the runs scored by eleven cricketers, named P1,P2,P3,P4, ... P11 in their respective careers which lasted for five years in each case. Which cricketer bridges the gap between the highest and the lowest scorers of runs?



$$\begin{array}{r} 10800 \\ - 2100 \\ \hline 8700 = P_{10} \end{array}$$

- 1. P8
- 2. P6
- 3. P10
- 4. P3

The given Bar Graph presents the Export of Tea and Coffee (in million kg) for the years 2012 to 2016.



C *T*

$$\begin{array}{r} 2650 \\ 2150 \\ \hline 500 \end{array}$$

Total export of coffee is approximately what percent more than the total export of tea during the five years?

✓ 1. 23 ✓

✗ 2. 26

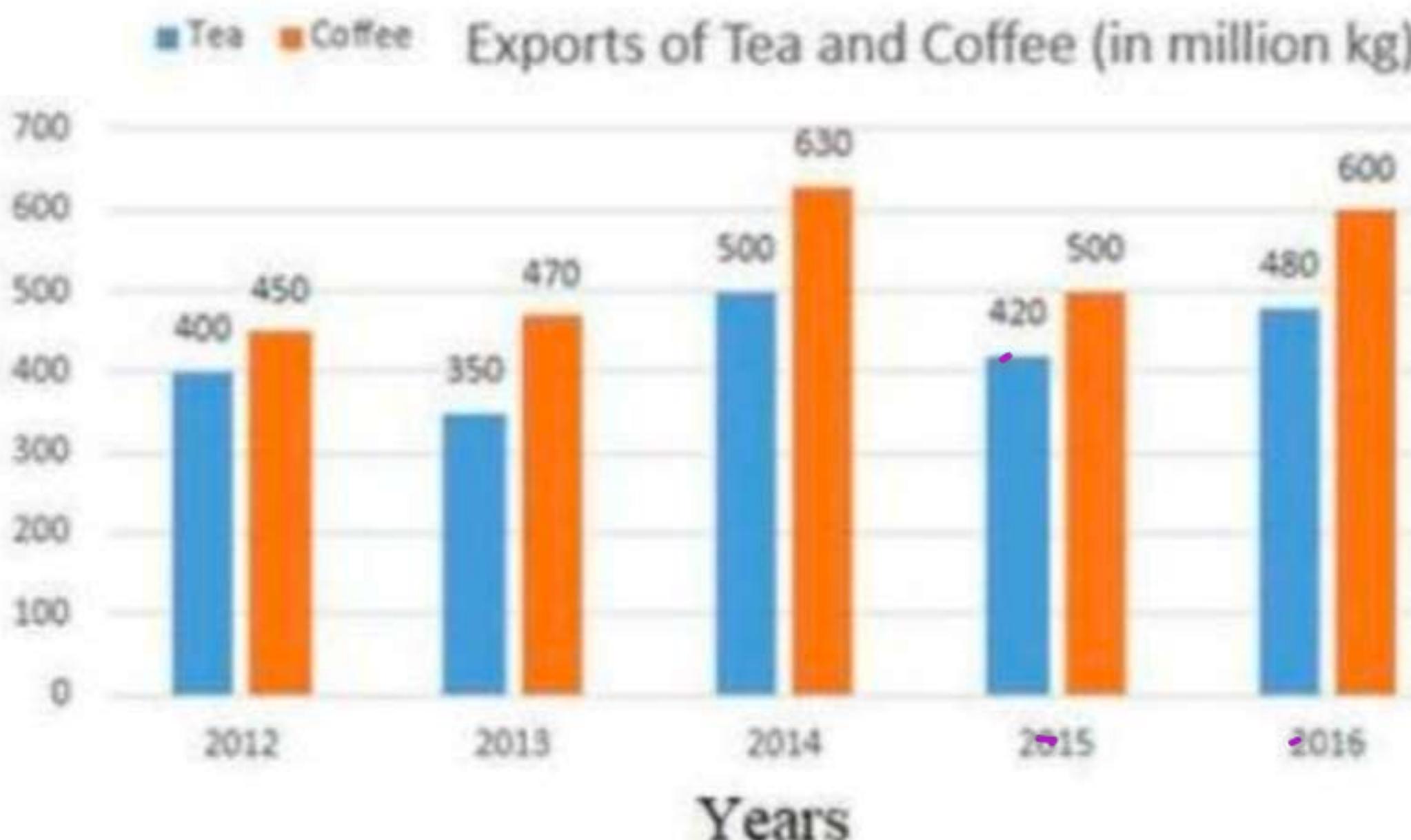
✗ 3. 28

✗ 4. 25

$$\begin{array}{r} 10 \\ \hline 500 \\ \hline 2150 \\ 43 \end{array}$$

$$\begin{array}{r} 43 \\ \times 100 \\ \hline 86 \\ \hline 140 \end{array}$$

The given Bar Graph presents the Export of Tea and Coffee (in million kg) for the years 2012 to 2016.

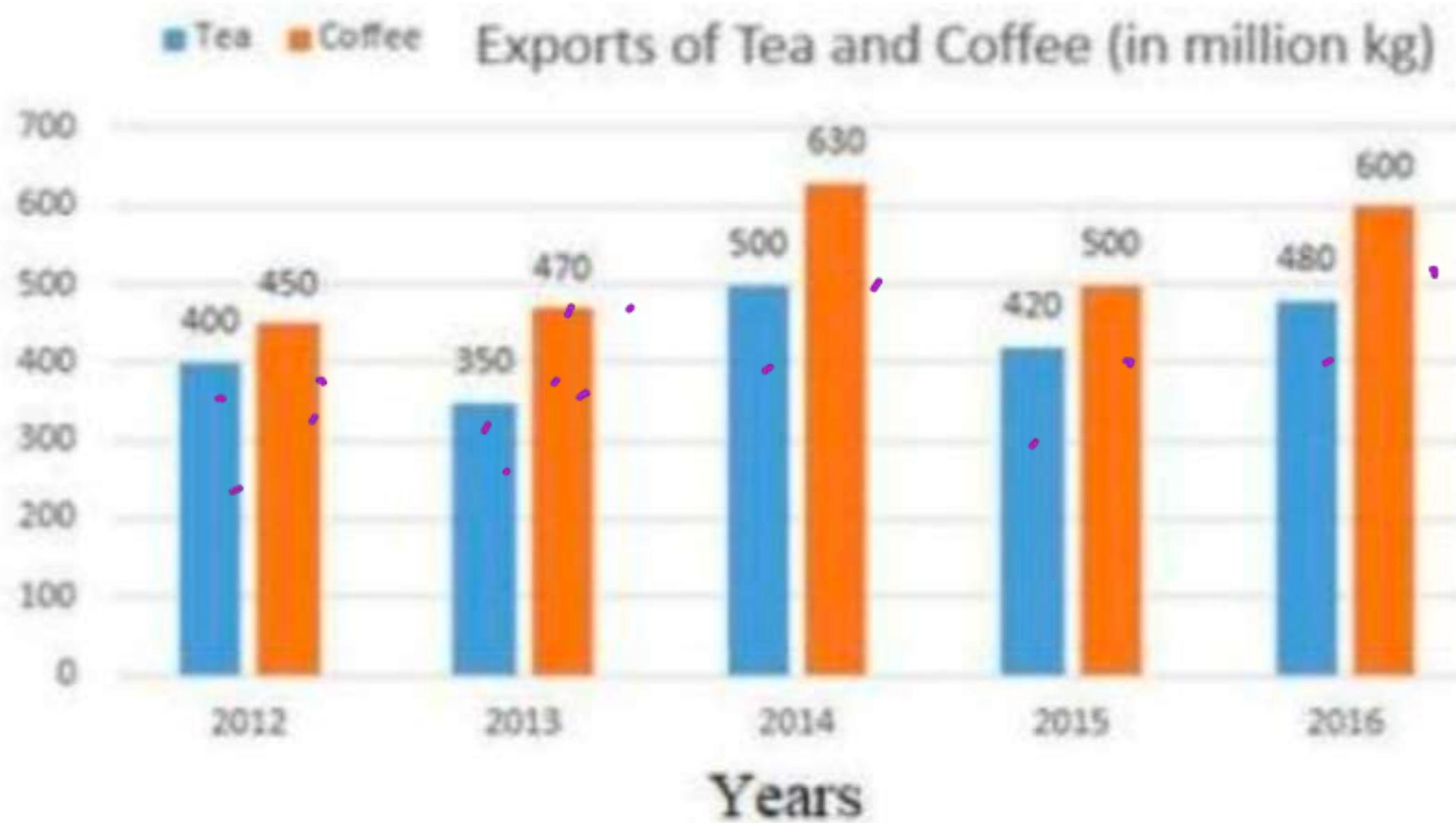


$$\begin{array}{l} T \\ \hline 600 \\ 500 \\ 420 \\ 12 \\ 6 \end{array} : \begin{array}{l} C \\ \hline 670 \\ 630 \\ 110 \\ 10 \\ 5 \end{array}$$

What is the ratio of total export of tea in 2012, 2014 and 2015 to the total export of coffee in 2013 and 2014?

- 1. $10 : 9$
- 2. $6 : 5$
- 3. $9 : 10$
- 4. $5 : 6$

The given Bar Graph presents the Export of Tea and Coffee (in million kg) for the years 2012 to 2016.



$$\text{Exp \%} = \frac{45 - 40}{40} \times 100 = 12.5\%$$

$\frac{1}{8} \times 100$

2012

$$\frac{35 - 30}{30} \times 100 = 16.7\%$$

$\frac{1}{6} \times 100$

2013

The number of years, in each of which the export of coffee is more than 20% as compared to the export of tea in that year is:

- 1. 2
- 2. 3
- 3. 4
- 4. 1

$$\frac{63 - 50}{50} \times 100 = 26\%$$

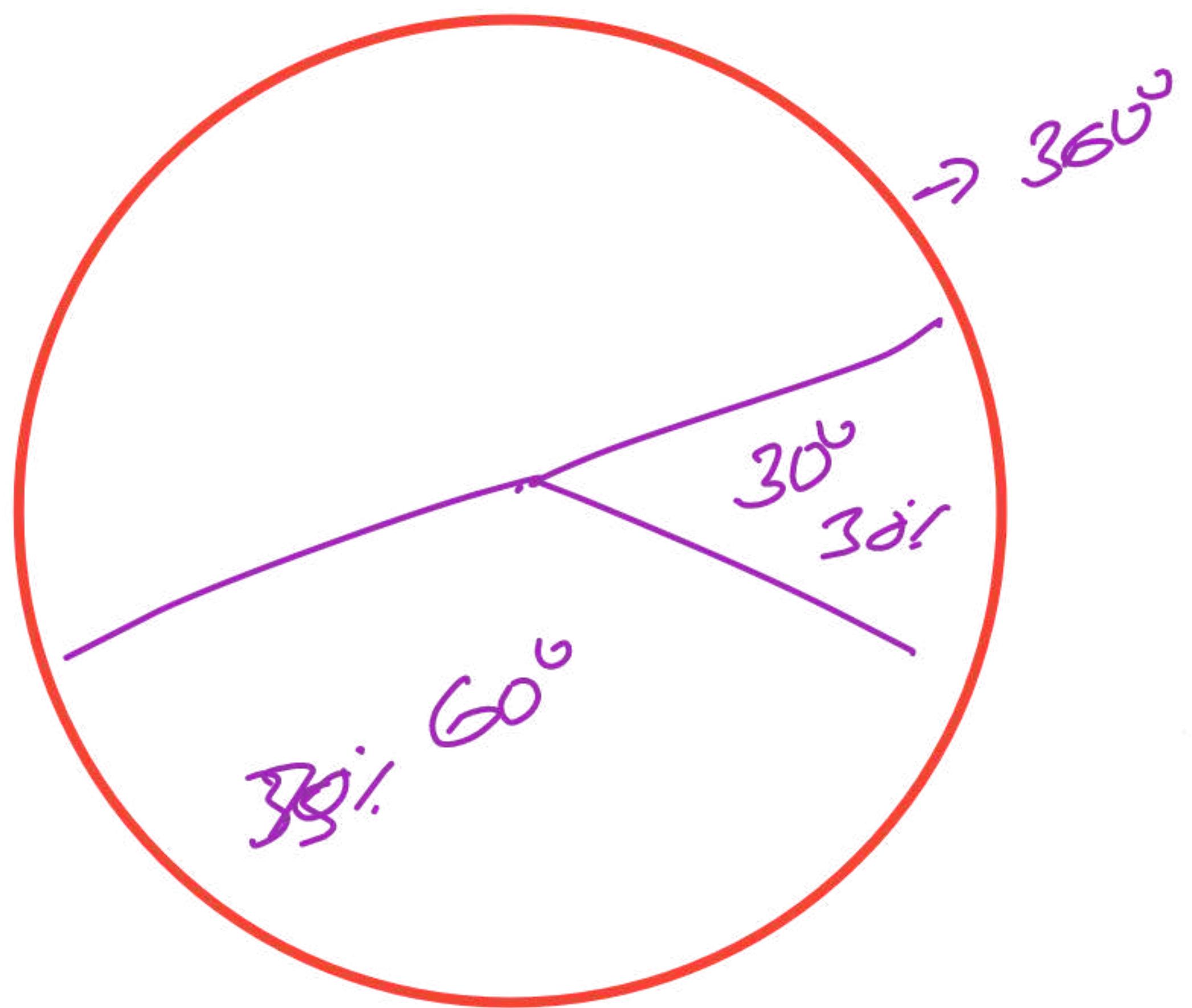
$$\frac{50 - 40}{40} \times 100 = 25\%$$

$$\frac{60 - 48}{48} \times 100 = 25\%$$

DATA INTERPRETATION

- 1) Tabular Column
- 2) Bar Chart
- 3) Pie Chart

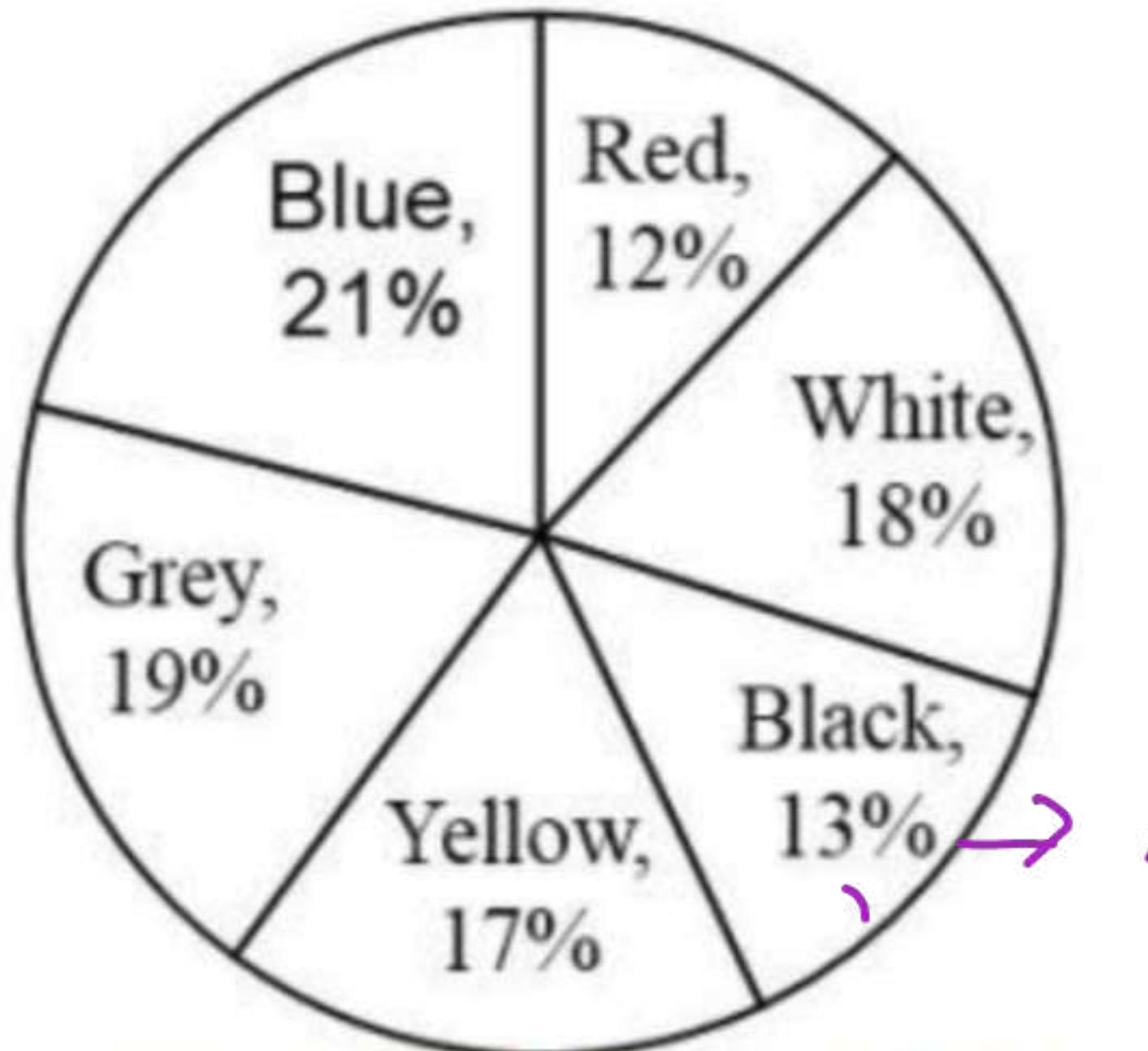
%
o



Total sum = $360^\circ \nearrow$

$100\% = 360^\circ \nearrow$

The Pie chart given below presents the percentages of the number of motor cycles of different colours out of the total number of motor cycles, parked in an area. The central angles shown in the Pie chart are not as per any chosen scale.



100%

13% → °

$$100\% = 360^\circ$$

$$\frac{13}{100} = \frac{360^\circ}{100\%} \times 13\%$$

$$\frac{468}{10} = 46.8^\circ \\ \approx 47^\circ$$

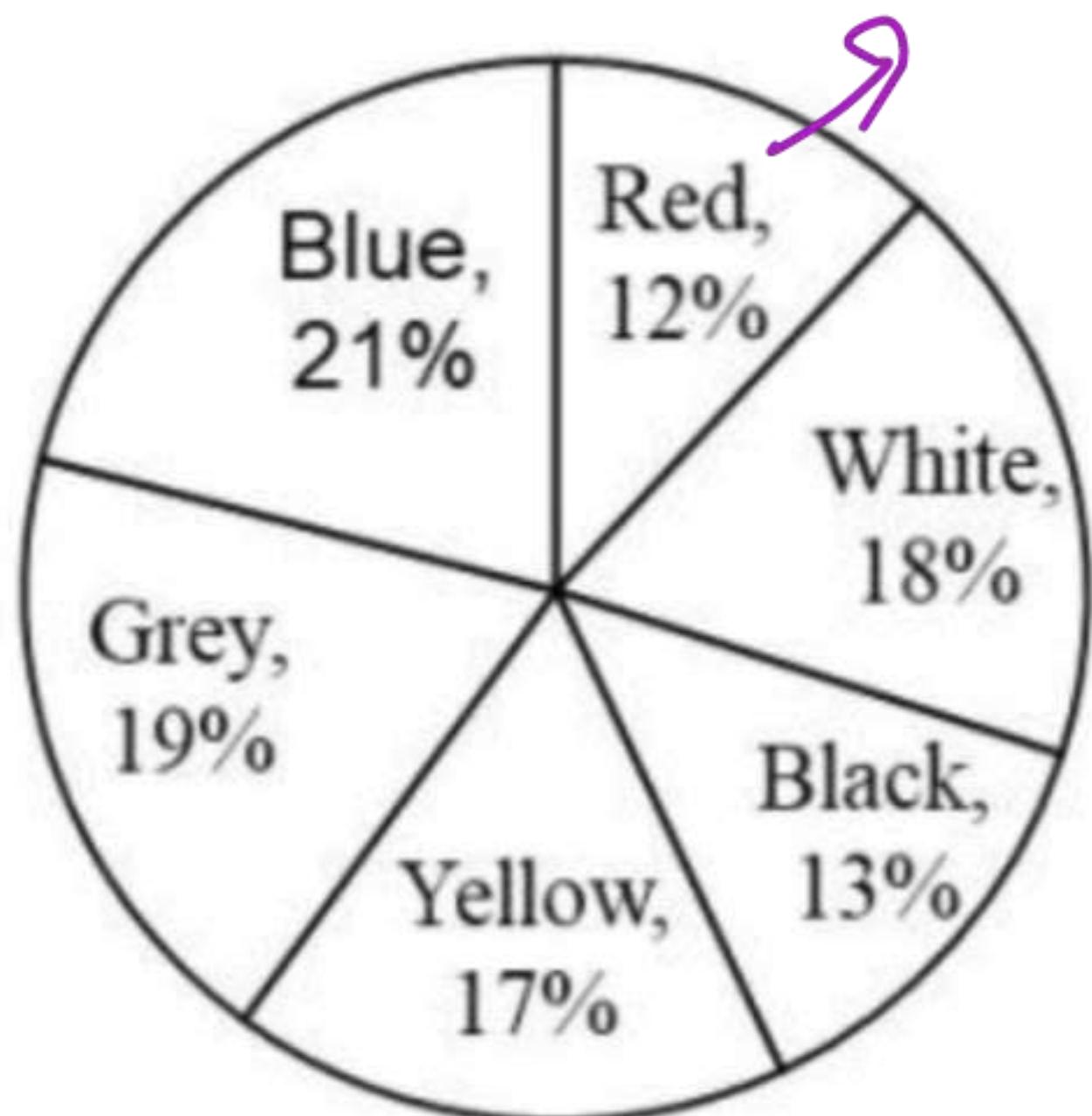
$$\frac{36}{108} = \frac{13}{108}$$

$$\frac{36}{468} = \frac{1}{10}$$

What is the central angle (nearest to one degree) corresponding to the motor cycles of black colour?

- 1. 44
- 2. 45
- 3. 46
- 4. 47

The Pie chart given below presents the percentages of the number of motor cycles of different colours out of the total number of motor cycles, parked in an area. The central angles shown in the Pie chart are not as per any chosen scale.

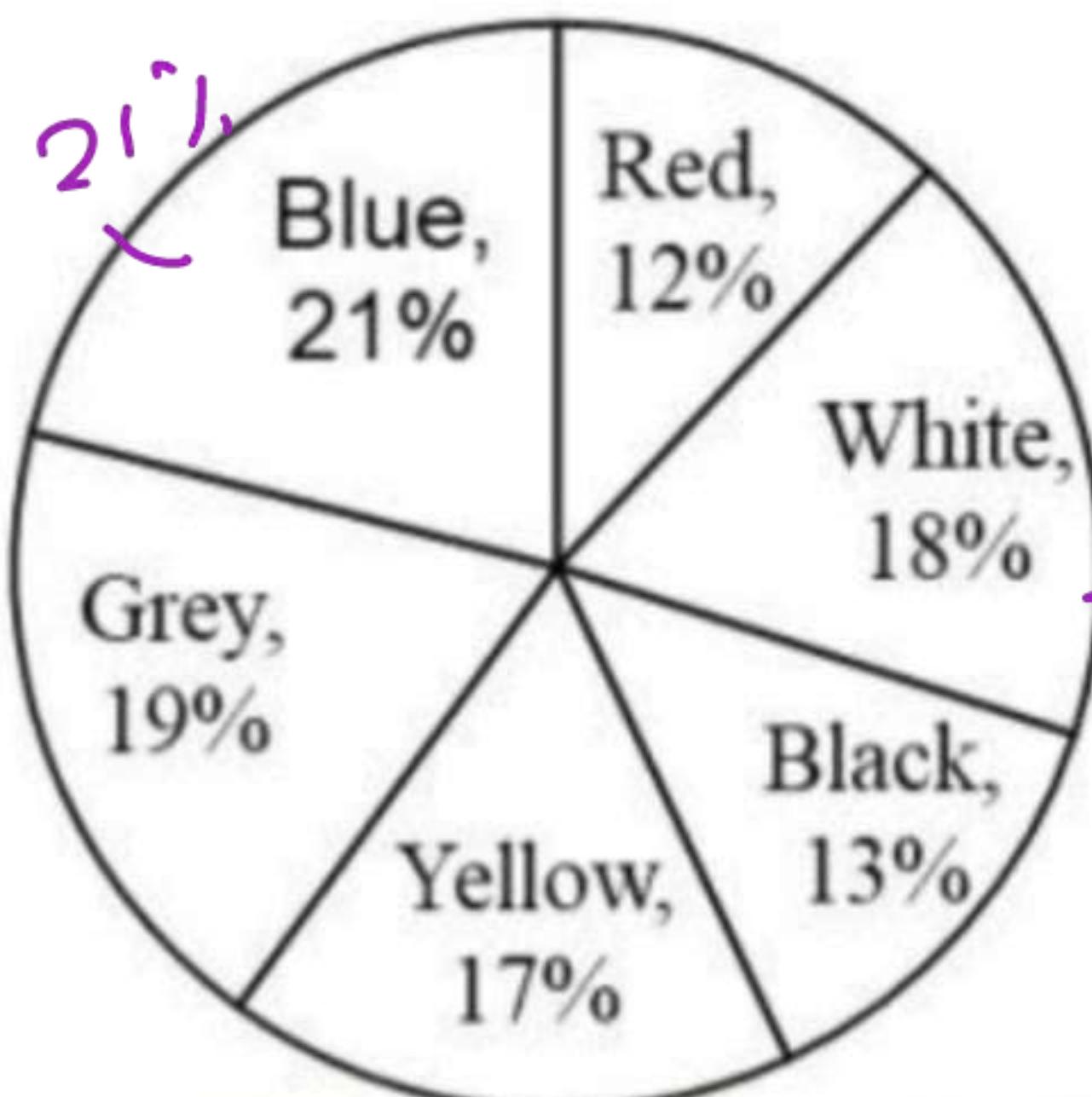


$$100\% = 2300$$
$$12\% = \frac{2300}{100\%} \times 12\% = 6$$

If the total number of motor cycles parked is 2300, then what is the number of red colour motor cycles out of them?

- 1. 284
- 2. 288
- 3. 280
- 4. 276

The Pie chart given below presents the percentages of the number of motor cycles of different colours out of the total number of motor cycles, parked in an area. The central angles shown in the Pie chart are not as per any chosen scale.



$$100\% = 230^\circ$$

$$3\% = \frac{2300}{100} \times 3\% \\ = 69$$

If the total number of motor cycles parked is 2300, the number having white colour is how much less than those having the blue colour?

- 1. 66
- 2. 72
- 3. 63
- 4. 69

The Table given below presents the Rainfall (in mm) in two cities on different days of a week.

Days	Rainfall (in mm)	
	City 1	City 2
D1 \rightarrow	82 $- 3$	81.6
D2	78	79.4
D3	76.2	78.3
D4	81.6	77.7
D5	79.4	84
D6	84	83
D7	83.8	82

$$\begin{aligned} \frac{565.0}{82} &= \frac{360^{\circ}}{72} \\ 82 &= \frac{360}{565} \times 82 \\ &= \frac{5904}{113} \end{aligned}$$

$$\begin{array}{r} 72 \\ 82 \\ \hline 144 \\ 576 \\ \hline 5904 \end{array}$$

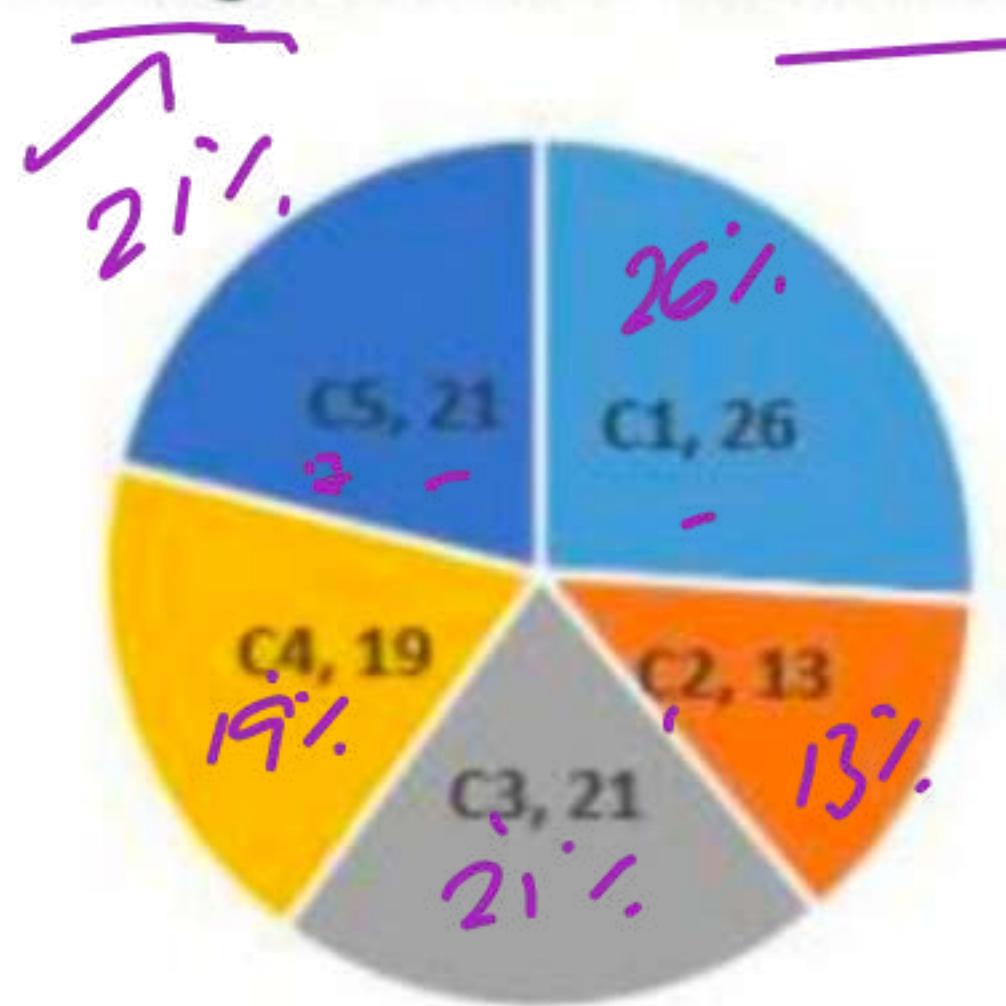
If the data of Rainfall of City 1 is represented through a Pie chart, then what will be the central angle (nearest to 0.1 degree) corresponding to D1?

- 1. 50.8
- 2. 53.3
- 3. 51.9
- 4. 52.2 ✓



$$\begin{array}{l} \text{sum: } 360^{\circ} \\ 82: ? \\ 113 \sqrt{5904} \\ \quad 565 \\ \hline \quad 254 \\ \quad 226 \\ \hline \end{array}$$

The given Pie Chart (central angles are not as per any chosen scale) presents the percentage of the number of refrigerators of five different companies (with reference to the total number of refrigerators) in a hotel.



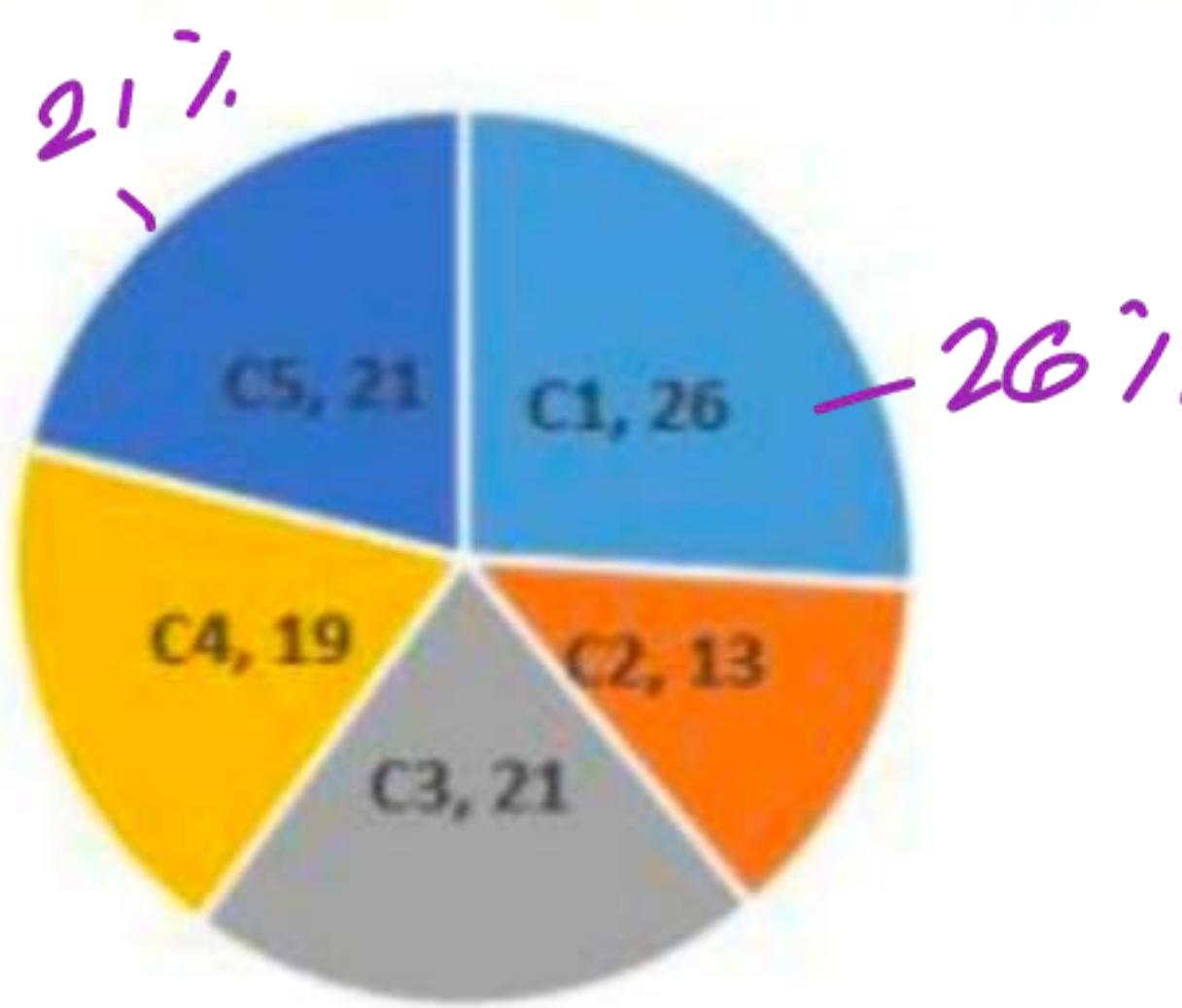
$$100\% = 3700$$

$$21\% = \frac{3700}{100} \times 21 X =$$

If the total number of refrigerators in the hotel is 3700, then what is the number of refrigerators of company C5?

- 1. 962
- 2. 777
- 3. 481
- 4. 703

The given Pie Chart (central angles are not as per any chosen scale) presents the percentage of the number of refrigerators of five different companies (with reference to the total number of refrigerators) in a hotel.



$$\text{Total: } 3700$$

$$100\% = 3700$$

$$\frac{26\%}{100\%} \times 5\% = \frac{3700}{100\%} \times 5\% = 5$$

What is the difference in number of refrigerators supplied to the hotel by companies C1 and C5?

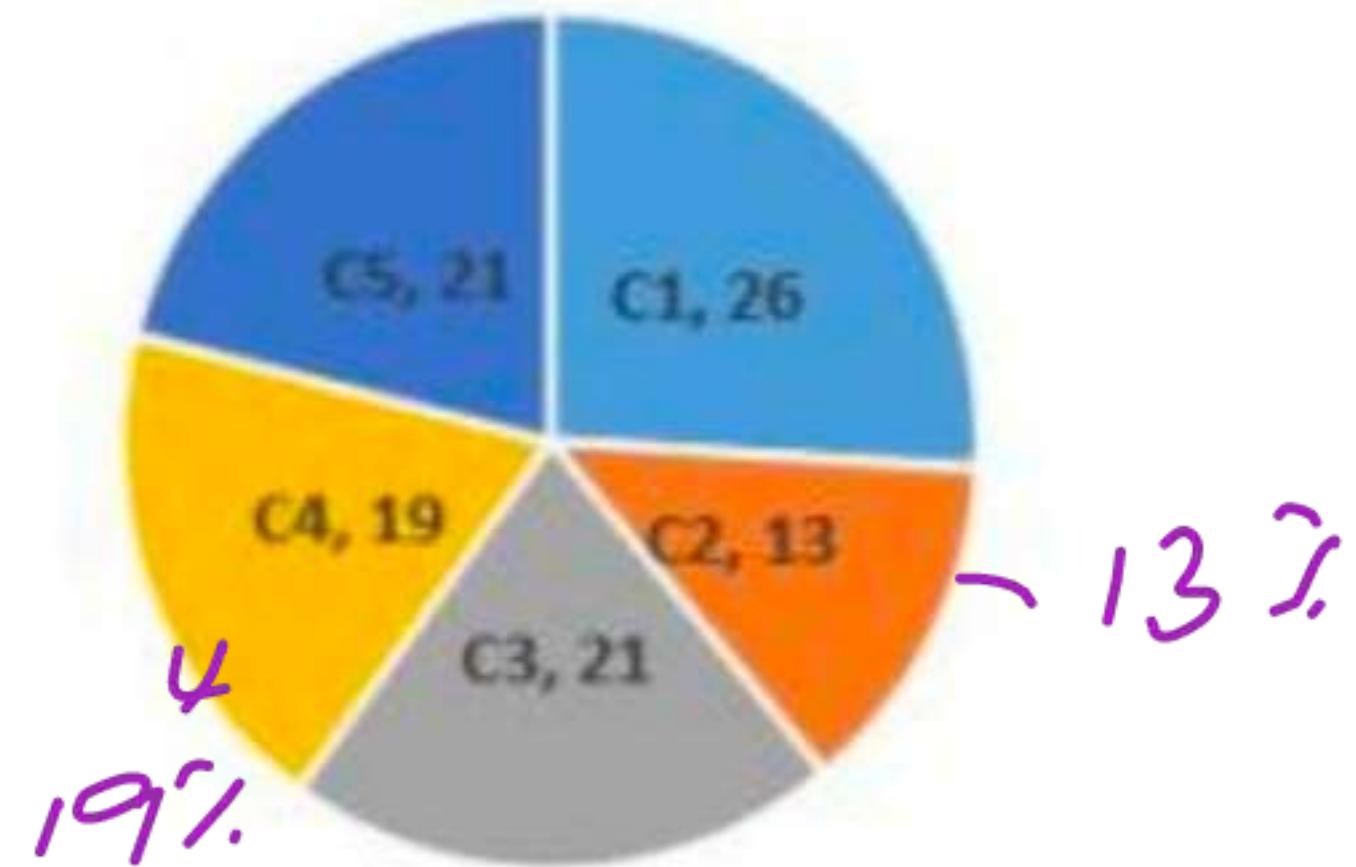
1. 481

2. 259

3. 222

4. 185

The given Pie Chart (central angles are not as per any chosen scale) presents the percentage of the number of refrigerators of five different companies (with reference to the total number of refrigerators) in a hotel.



$$\begin{aligned}
 \text{Total} &= 360^\circ \\
 100\% &= 360^\circ \\
 13\% &= \frac{360^\circ}{100\%} \times 6\% = \frac{21.6}{10}^\circ \\
 9\% &= 21.6^\circ
 \end{aligned}$$

What is the difference between the central angles (to the nearest 0.1 degree) subtended by the sectors for C2 and C4?

1. 19.2

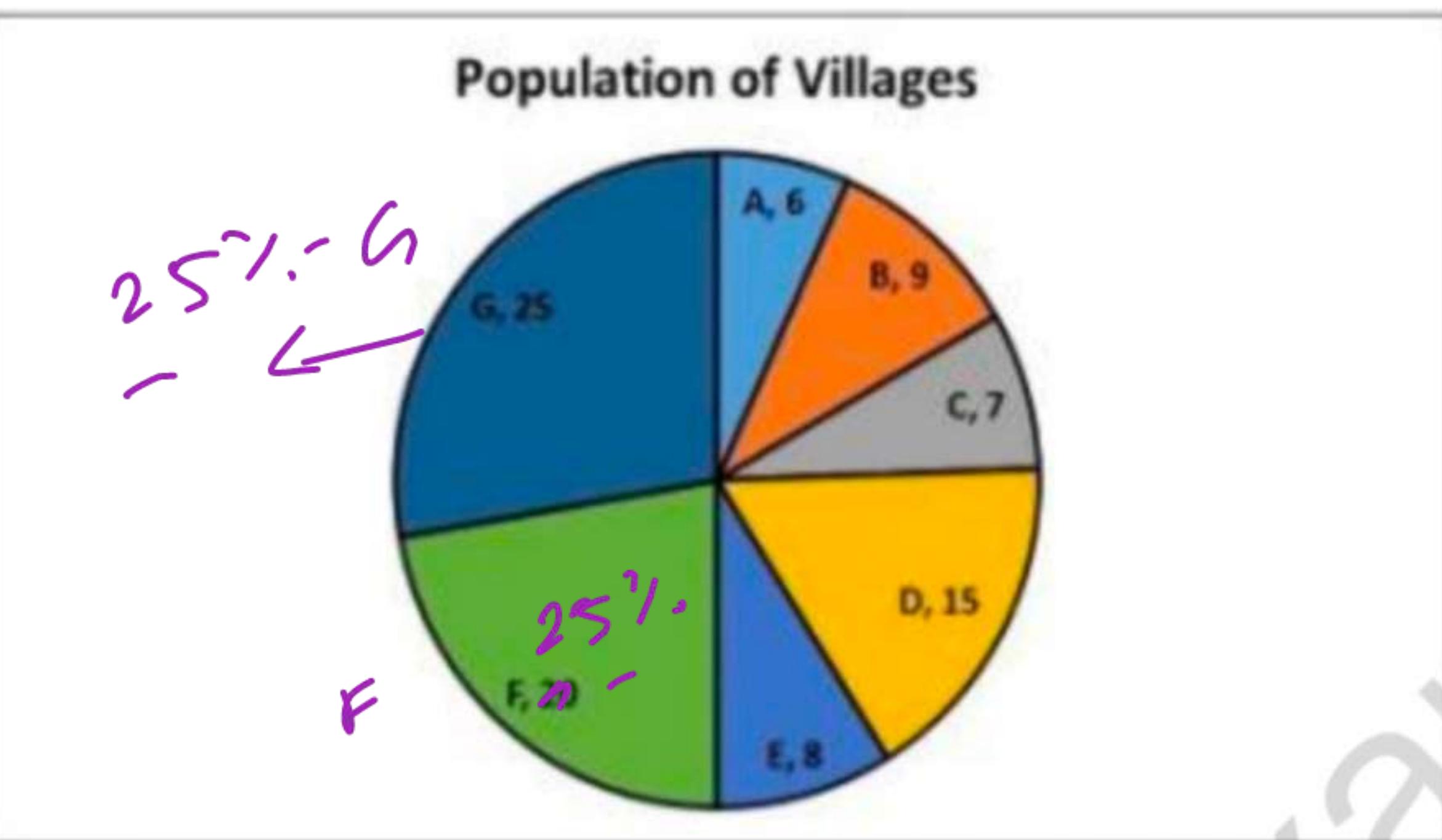
2. 21.6

3. 24.0

4. 22.5

$$\text{Total} = 100\% = 360^\circ$$

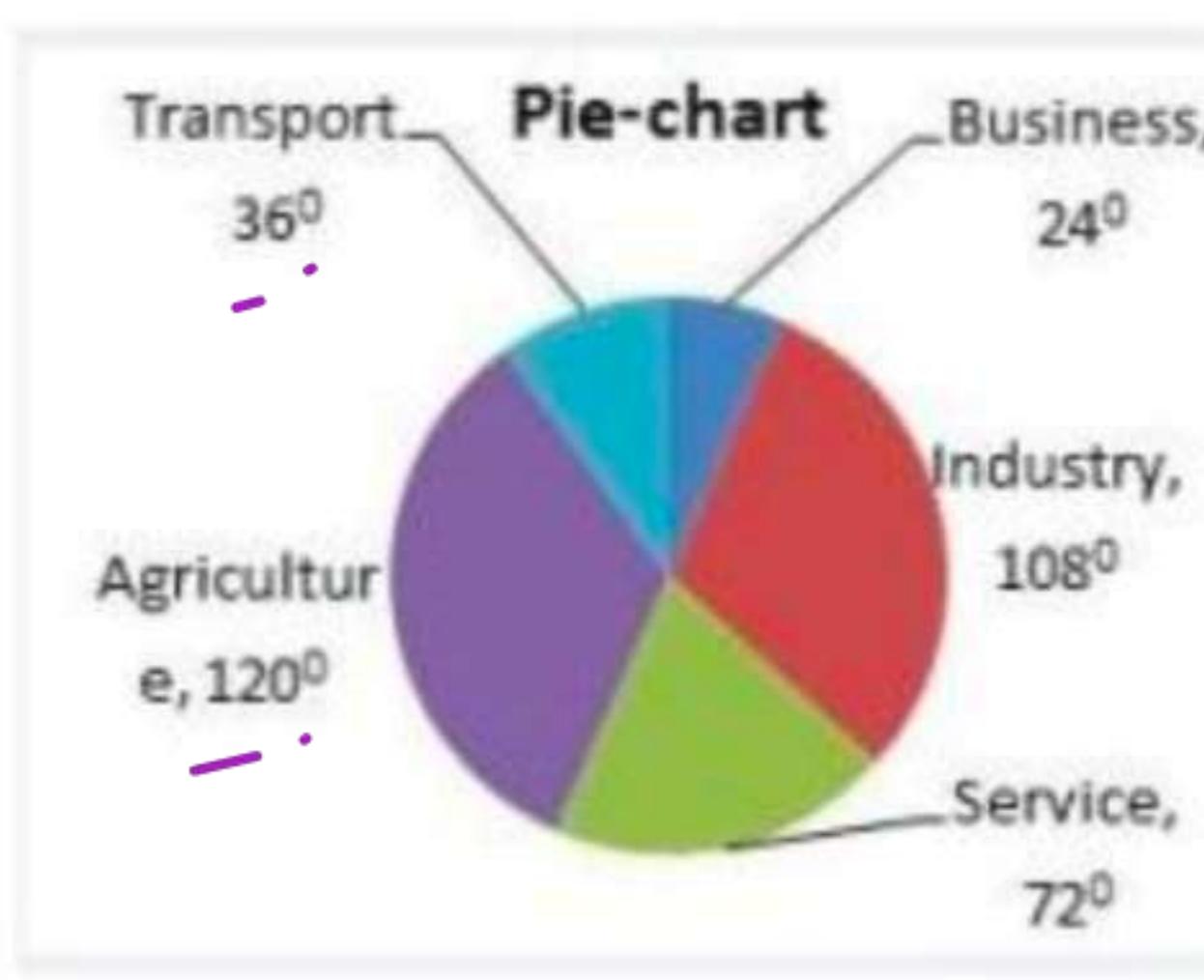
The Pie chart shows the proportionate population of seven villages. The seven villages make up a district. If the population of villages F and G combined is 35000, then what is the total population of the district?



$$\begin{aligned}100\% &= ? \\F+G &= 25\% + 25\% \\&= 50\% = 35000 \\100\% &= \frac{35000}{50\%} \times 100\% \\&= 70000\end{aligned}$$

- 1. 70000 ✓
- 2. 84000
- 3. 77000
- 4. 63000

The Pie Chart shows the angular representation of five different Employment sectors. The total number of employees in these five sectors is 7,20,000.



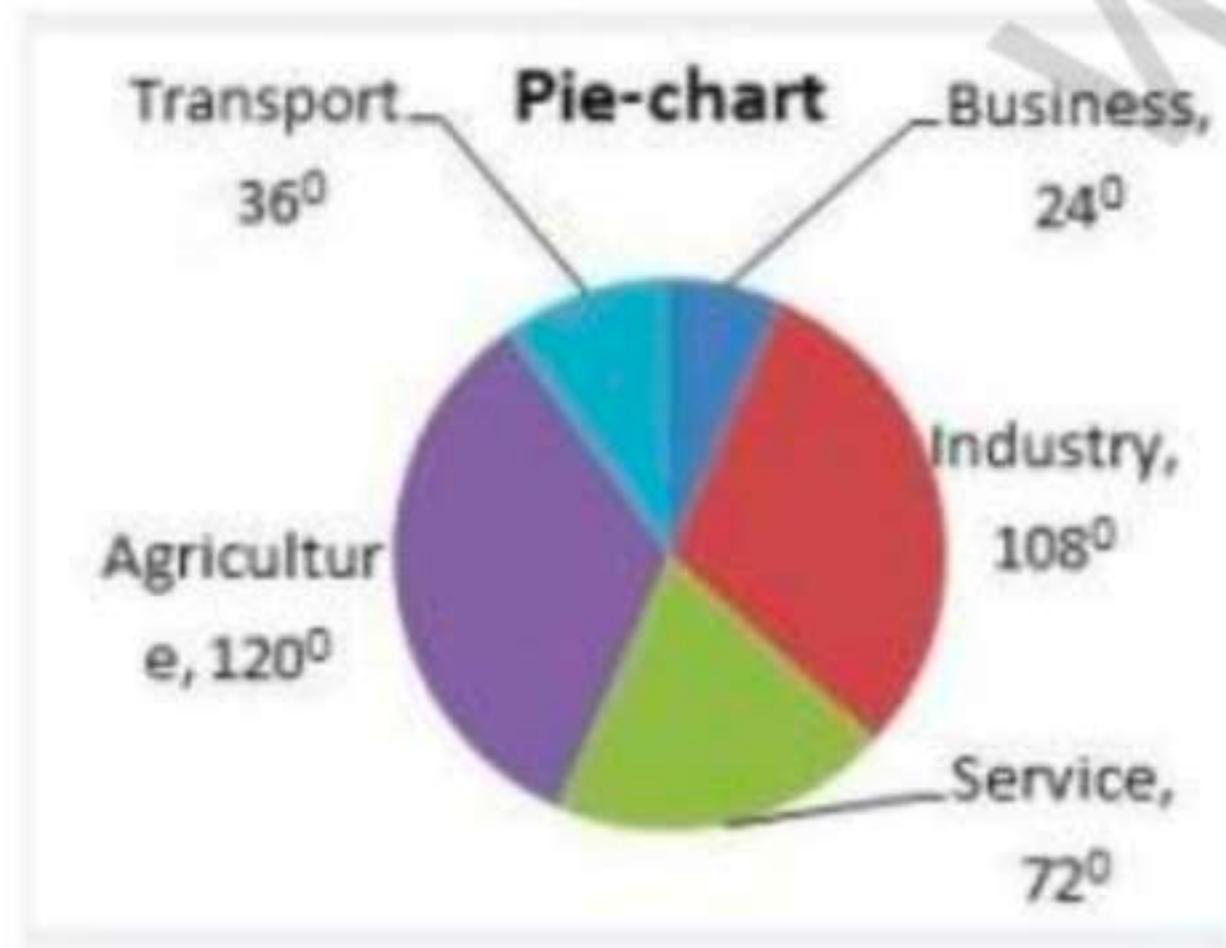
$$360^\circ = 720000$$
$$1^\circ = 2000$$
$$180^\circ = 2000 \times 180 = 360000$$

How many total employees are engaged in Agriculture, Business and Transport?

- 1. 3,60,000 ✓
- 2. 5,00,000 ✗
- 3. 2,60,000 ✗
- 4. 4,80,000 ✗

$$\frac{120^\circ}{360^\circ} = \frac{1}{3}$$
$$\frac{24^\circ}{360^\circ} = \frac{1}{15}$$
$$\frac{36^\circ}{360^\circ} = \frac{1}{10}$$
$$\frac{180^\circ}{360^\circ} = \frac{1}{2}$$

The Pie Chart shows the angular representation of five different Employment sectors. The total number of employees in these five sectors is 7,20,000.

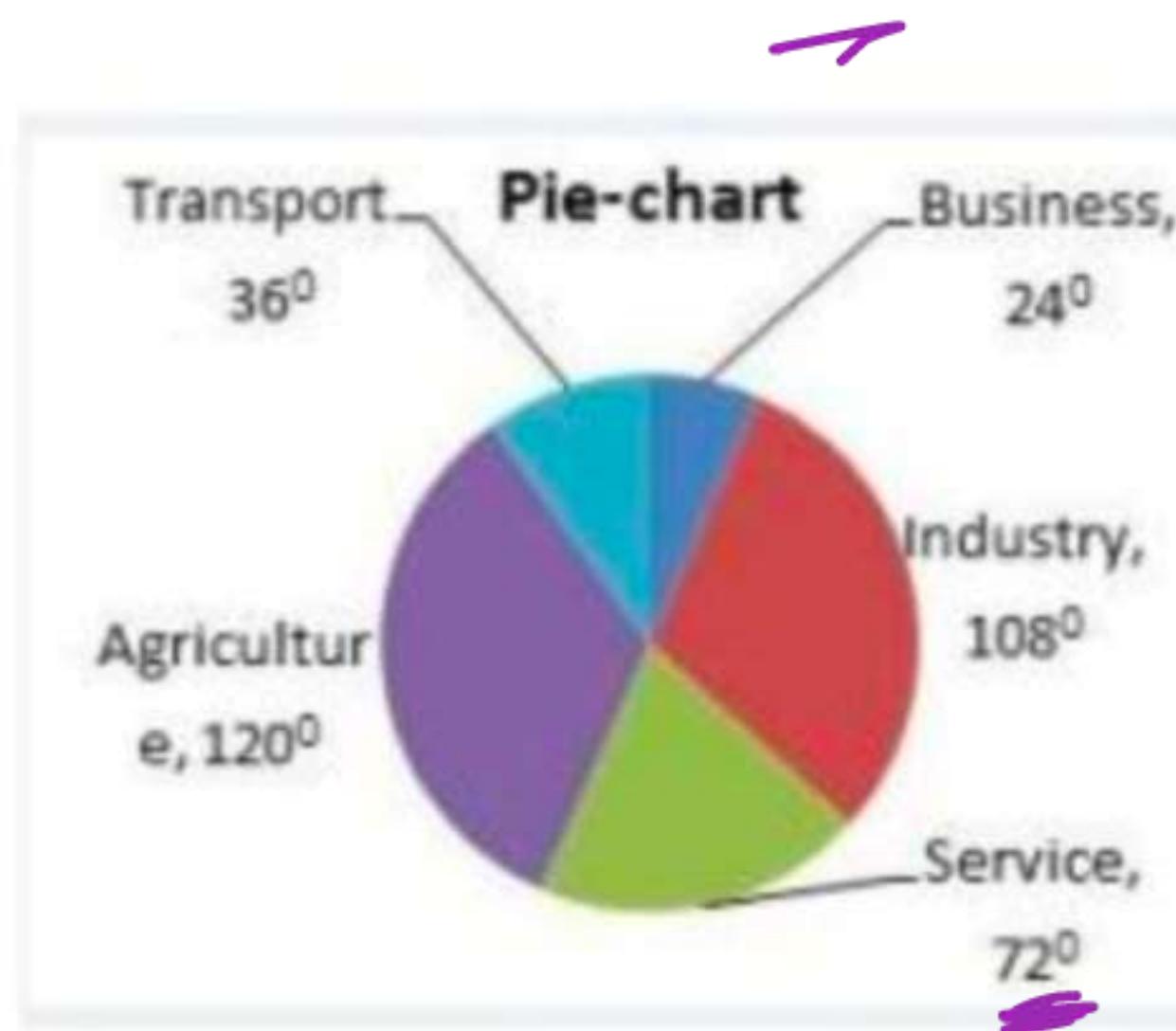


$$\begin{array}{rcl} 1^{\circ} & = & 2000 \\ \hline 84^{\circ} & = & 168000 \\ 108^{\circ} - 24^{\circ} & = & 84^{\circ} \\ \hline 24^{\circ} & = & 2000 \\ \hline 84^{\circ} & = & 168000 \end{array}$$

How many more employees are engaged in Industry than Business?

- 1. 360000
- 2. 168000
- 3. 250000
- 4. 260000

The Pie Chart shows the angular representation of five different Employment sectors. The total number of employees in these five sectors is 7,20,000.



$$\text{Total: } 100\% = 360^\circ$$
$$360^\circ : \frac{100\%}{360^\circ} \times 72^\circ = 20\%$$

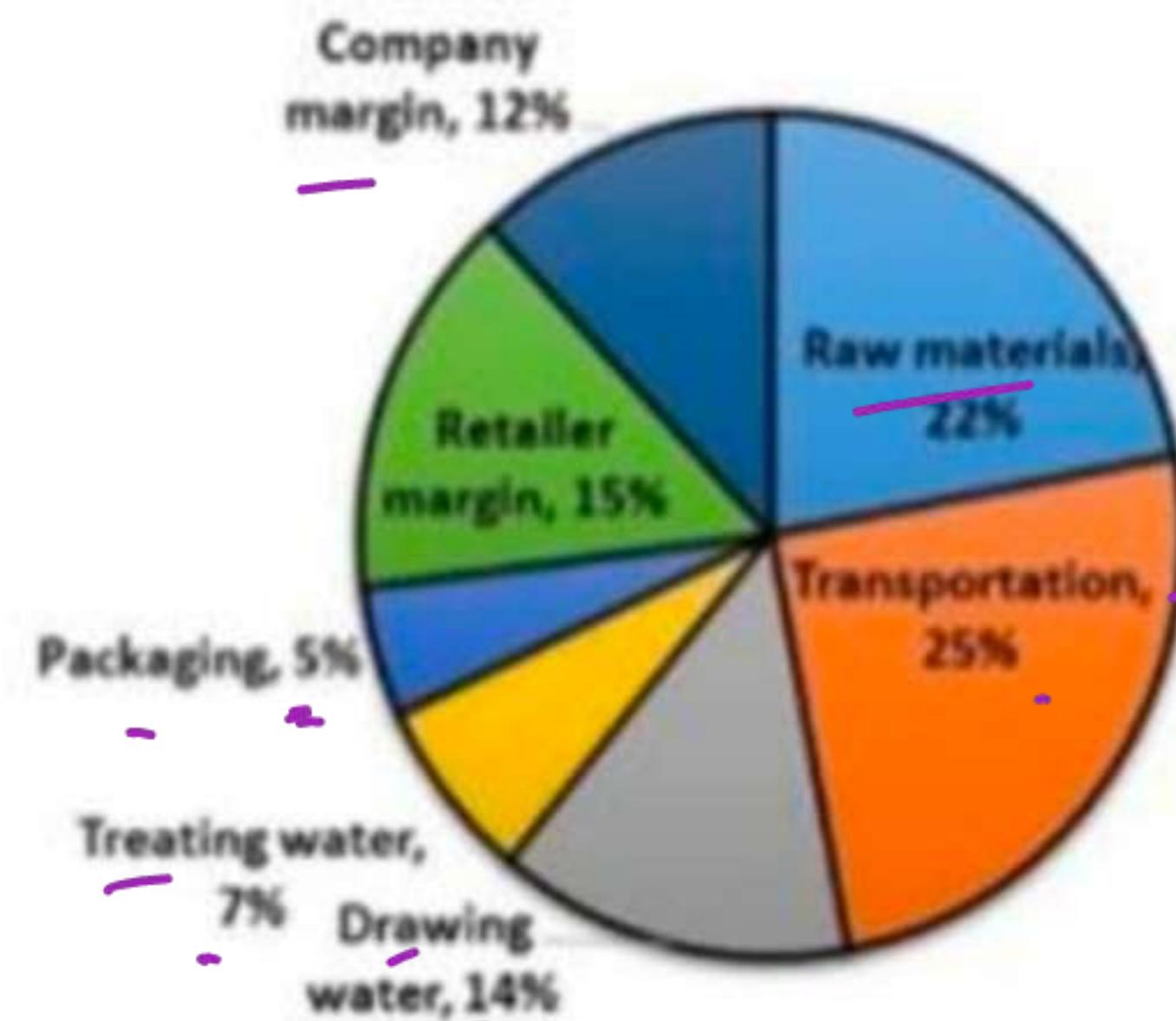
How much percent employees are in Service Sector?

- 1. 72%
- 2. 36%
- 3. 20%
- 4. 25%

$$100\% : \frac{360^\circ}{360^\circ} = X\%$$

The Pie chart given below presents the distribution of costs of making a water bottle by a company. If the company earns 20% on cost per bottle and the cost of packaging one bottle is ₹0.50, then what is the selling price of one bottle?

Distribution of costs of making a Water bottle



$$\begin{array}{ccc} CP & \xrightarrow[100\%]{20\%} & SP \\ 10 & & 12 \end{array}$$

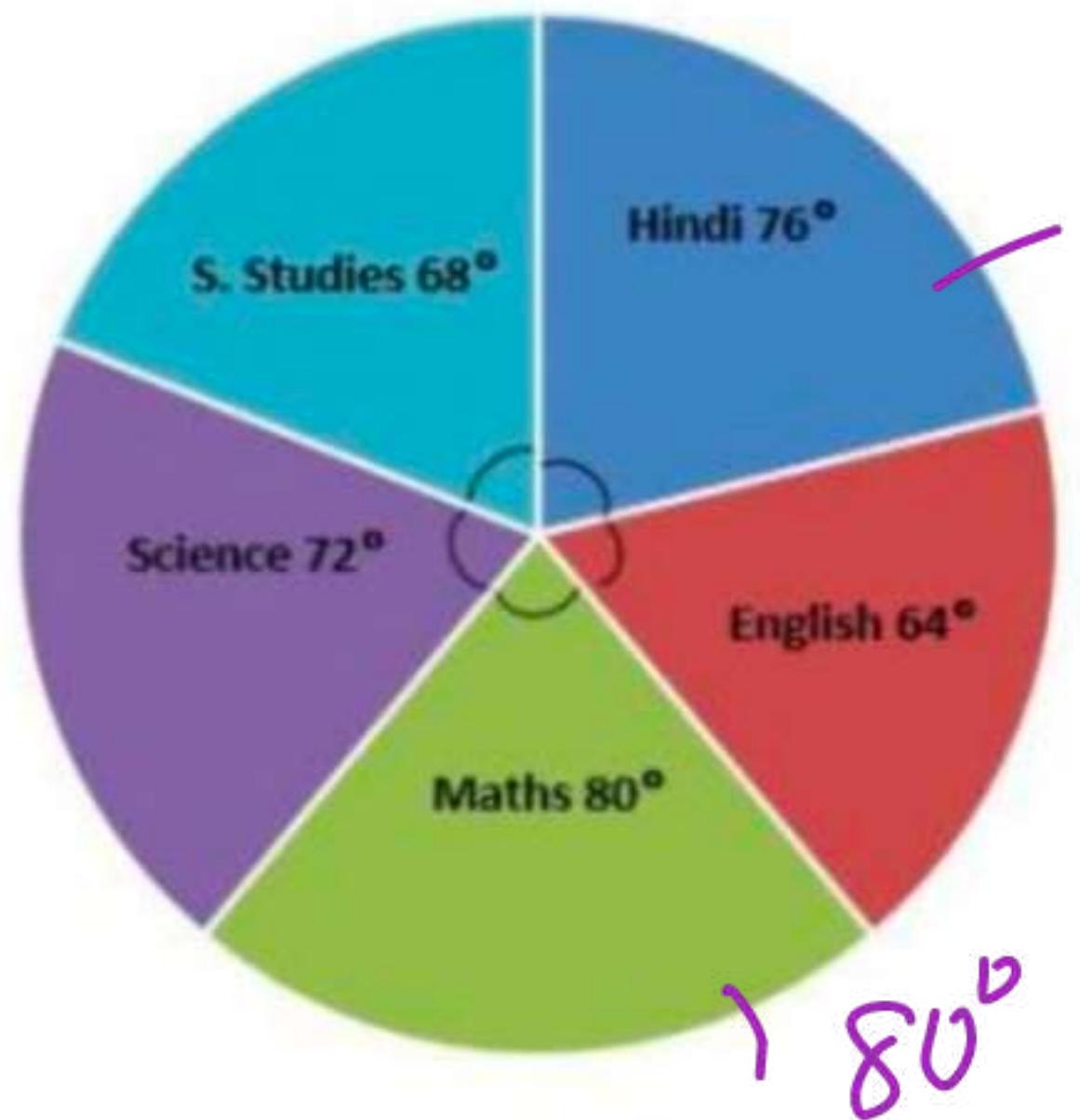
- 1. ₹12.50
- 2. ₹12
- 3. ₹15
- 4. ₹10

$$\begin{aligned} 5\% &= .50 \\ 100\% &= \frac{.50}{.05} \times 100 = 10 \end{aligned}$$

The given Pie Chart (~~angles are not as per any chosen scale~~) presents the marks scored by Amit in five subjects.

Maximum marks in each subject = 100.

Total score of Amit = 450.



$$\text{Total} = 360^\circ = 450$$
$$1^\circ = \frac{450}{360^\circ} \times 1^\circ = 5$$
$$4^\circ = ?$$

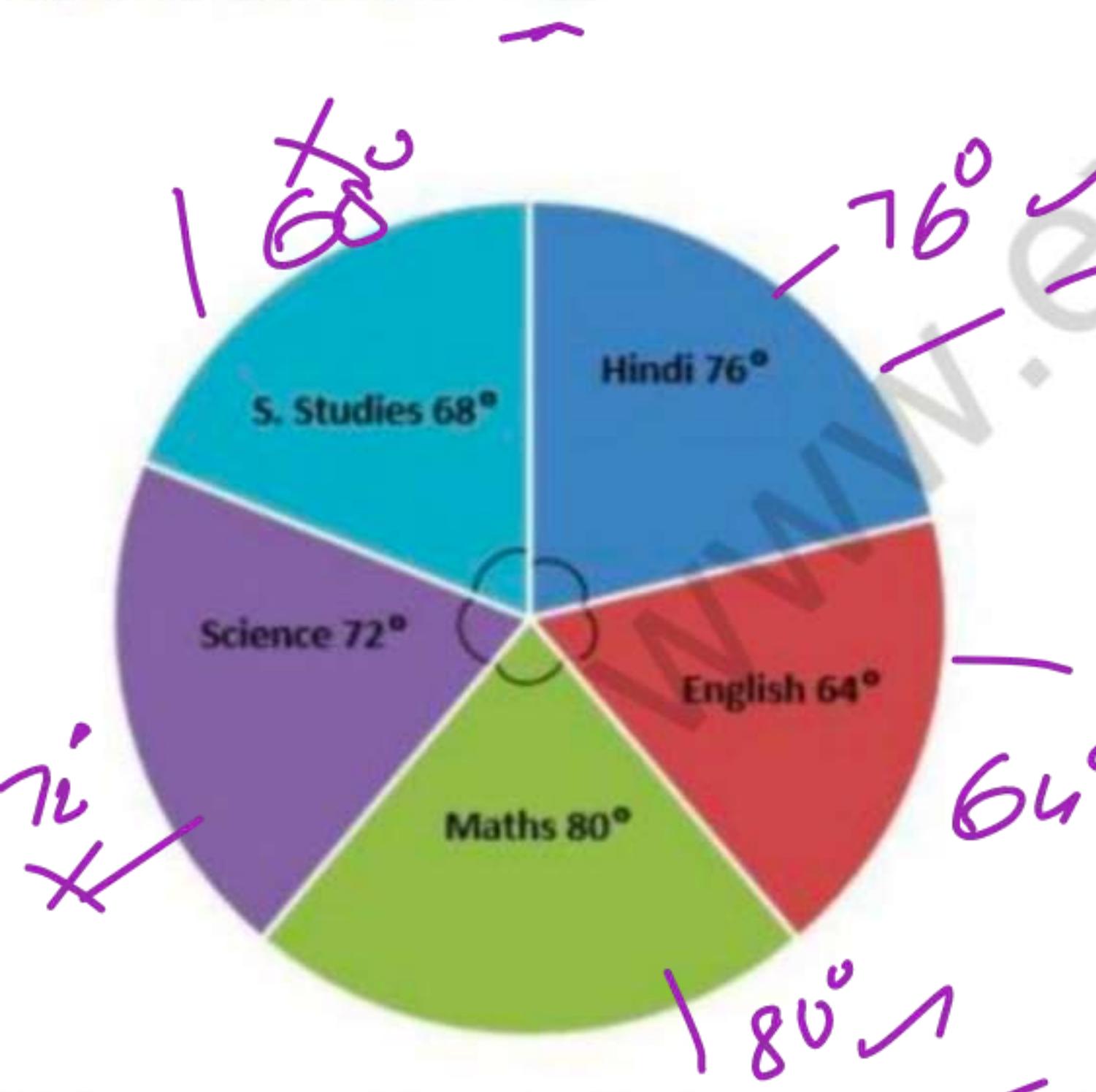
What is the difference between the marks scored by Amit in Hindi and Maths?

- 1. 5
- 2. 10
- 3. 8
- 4. 4

The given Pie Chart (angles are not as per any chosen scale) presents the marks scored by Amit in five subjects.

Maximum marks in each subject = 100.

Total score of Amit = 450.



$$\text{Avg: } \frac{\text{Total (sum)}}{n} = \frac{450}{5} = 90 \text{ marks}$$

$$450: 360^\circ$$
$$90: \frac{360^\circ}{450} \times 90^\circ$$
$$= 72^\circ$$

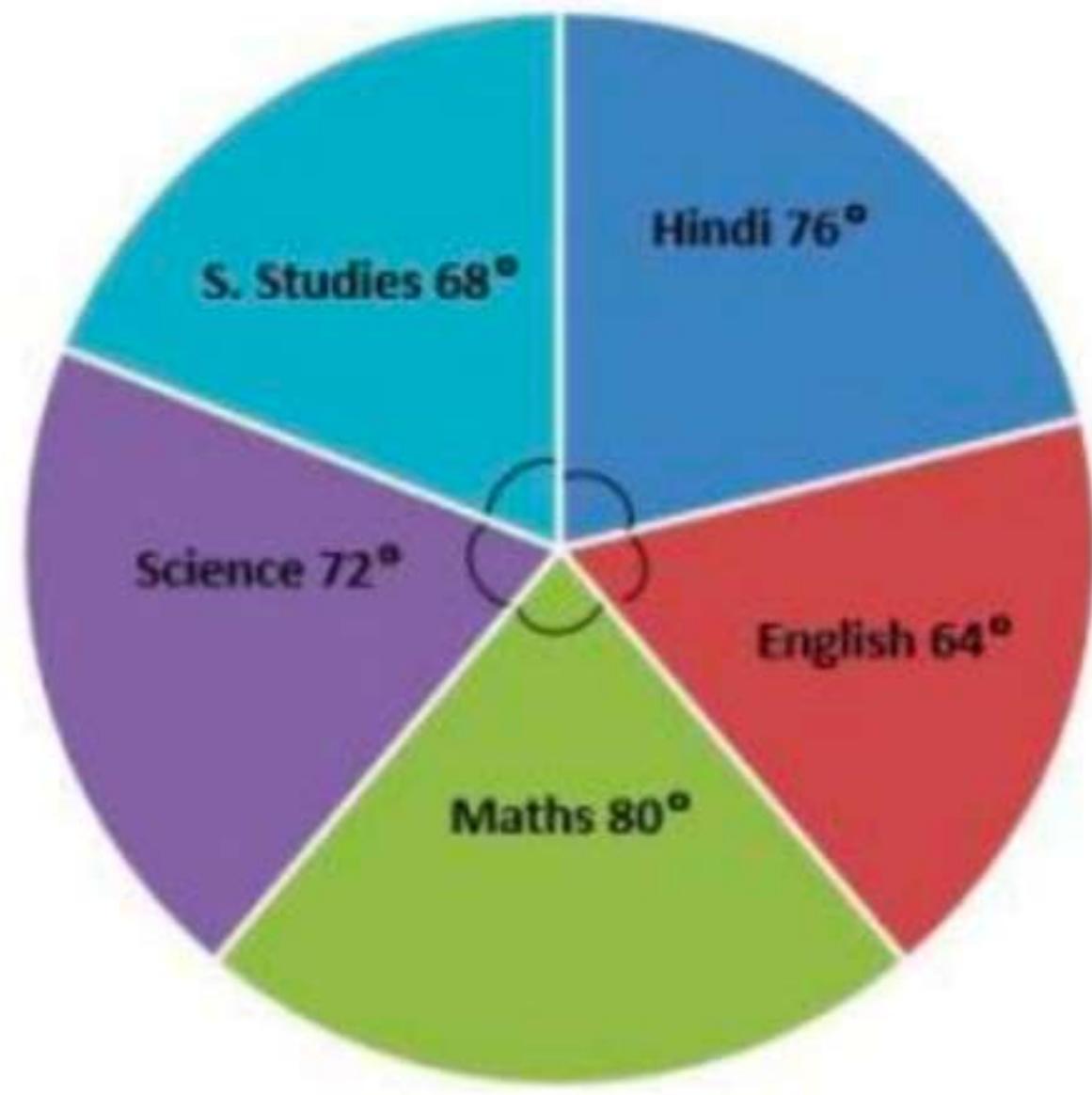
In how many subjects, did Amit score more than his average score?

- 1. 2
- 2. 3
- 3. 1
- 4. 4

The given Pie Chart (angles are not as per any chosen scale) presents the marks scored by Amit in five subjects.

Maximum marks in each subject = 100.

Total score of Amit = 450.



$E + S.S$

$$64^\circ + 68^\circ = 132^\circ$$

M

$$\frac{132}{360} \times 100 = 36.7\%$$

80°

$\frac{52}{360} \times 100 = 14.4\%$

$13.52\% + 14.4\% = 27.92\%$

$27.92\% + 36.7\% = 64.62\% = 65\%$

The total marks scored by Amit in English and S. Studies is what percent (correct to one decimal place) more than the marks scored by him in Maths?

- 1. 65
- 2. 77.8
- 3. 72.4
- 4. 68.3