



SBI CLERK 2023



रफ्तार Batch

- Simplification
- Quadratic Equation
- Data Interpretation - (Table)
- Data Interpretation - (PIE-Chart)

MATHS

Day-6

हल करो सब कुछ चुटकियों में

LIVE

11:00 AM





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Question 1- $7^{0.75} \times 2401^{0.25} \div 49^{-1} = \underline{7}?$

$$7^x = 7^{0.75} \times (7^4)^{0.25} \times (7)^2$$

$$7^x = 7^{3.75}$$

$$x = \underline{\underline{3.75}}$$

$$7^4 = 2401$$

$$(a^m)^n = a^{m \times n}$$

$$a^{-1} = \frac{1}{a}$$

✓ A. 3.75

B. 3.25

C. 3.5

D. 3

E. None of these



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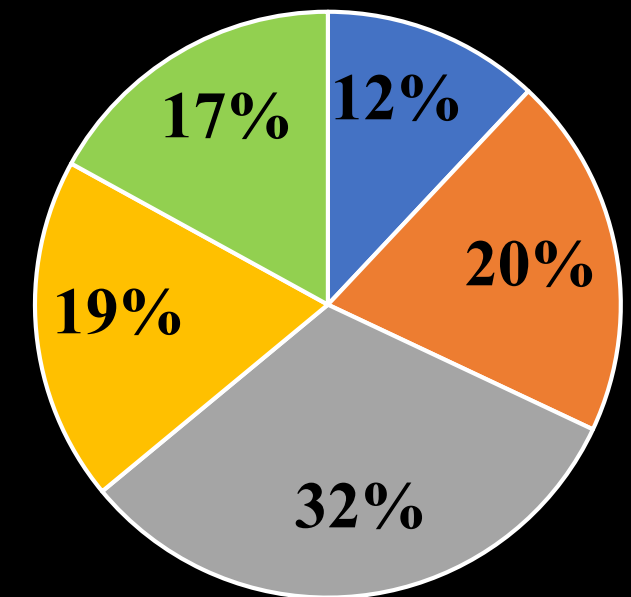


The given pie chart shows the percentage of students in schools and table shows the ratio of boys and girls in same schools.

दिया गया पाई चार्ट स्कूलों में छात्रों के प्रतिशत को दर्शाता है और तालिका समान स्कूलों में लड़कों और लड़कियों के अनुपात को दर्शाती है।

TOTAL STUDENTS= 1800

CITY SCHOOL	BOYS:GIRL
P	2:1
Q	4:1
R	1:3
S	1:2
T	2:1





$$G_p + G_q =$$

Question 2- Find the total number of girls in ^{school.} city P and Q.

प्रश्न 2- शहर P और Q में लड़कियों की कुल संख्या ज्ञात कीजिए।

$$= 12\% \text{ of } 1000 \times \frac{1}{2} + 20\% \text{ of } 1000 \times \frac{1}{5}$$

A. 136 = 72 + 72

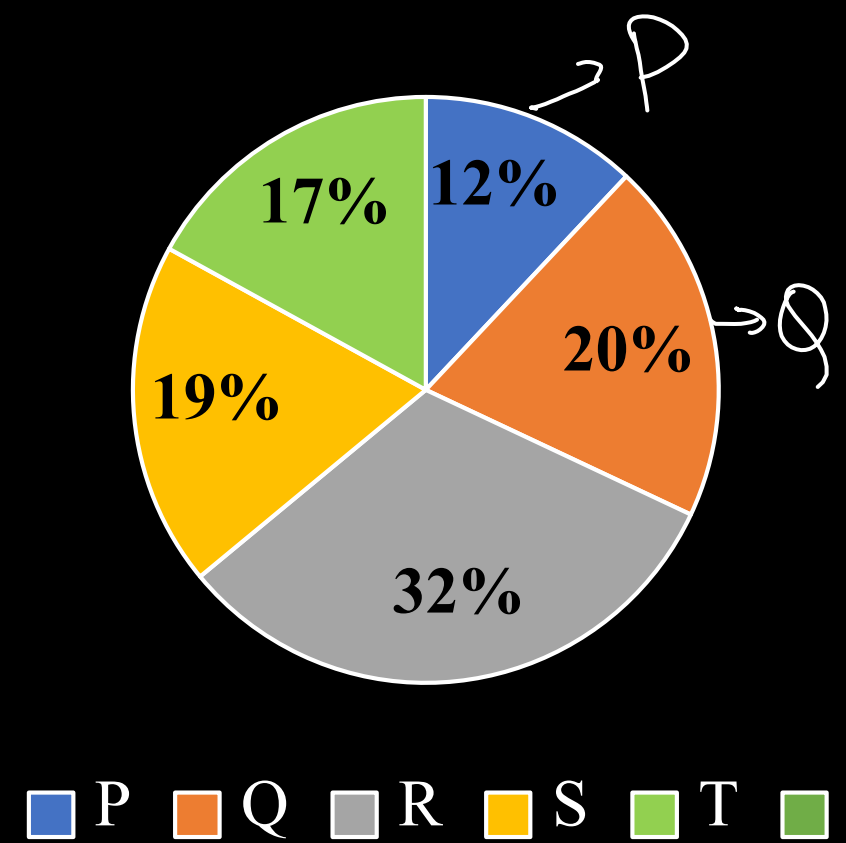
B. 144 = 144

C. 124 = 124

D. 134

E. None of these

CITY SCHOOL.	BOYS:GIRL
P	2:1
Q	4:1
R	1:3
S	1:2
T	2:1



- P
- Q
- R
- S
- T
-



Question 5- ? % of $(152 \div 19 \times 55) = 132$

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- A. 30
- B. 20
- C. 40
- D. 50
- E. None of these



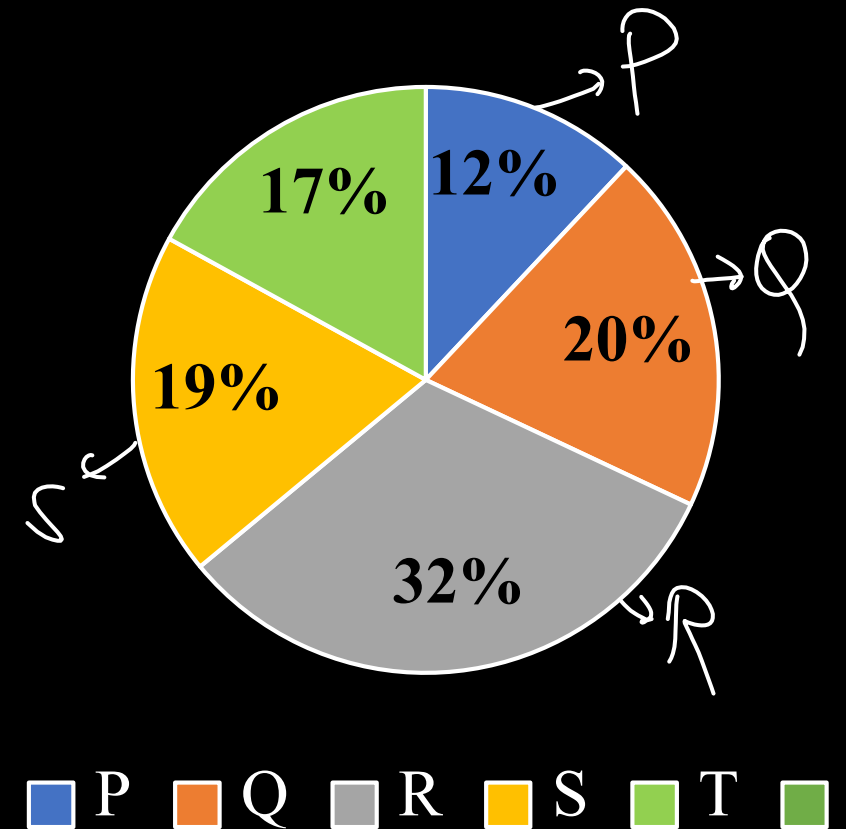
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Question 3- Find the difference between male in R and female in S.

प्रश्न 3- R में पुरुष और S में महिला के बीच का अंतर ज्ञात कीजिए

- A. 15
- B. 25
- C. 35
- D. 30
- E. None of these

CITY SCHOOL	BOYS:GIRL
P	2:1
Q	4:1
R	1:3
S	1:2
T	2:1





$$\text{Male R - Male S} = \frac{1}{4} \text{ of } 32\% \text{ of } 1800 \rightarrow \frac{2}{3} \text{ of } 19\% \text{ of } 1800$$

$$= 144 \rightarrow 228$$

$$= 84$$

$$\begin{array}{r} 56 \\ 28 \\ \hline \end{array}$$



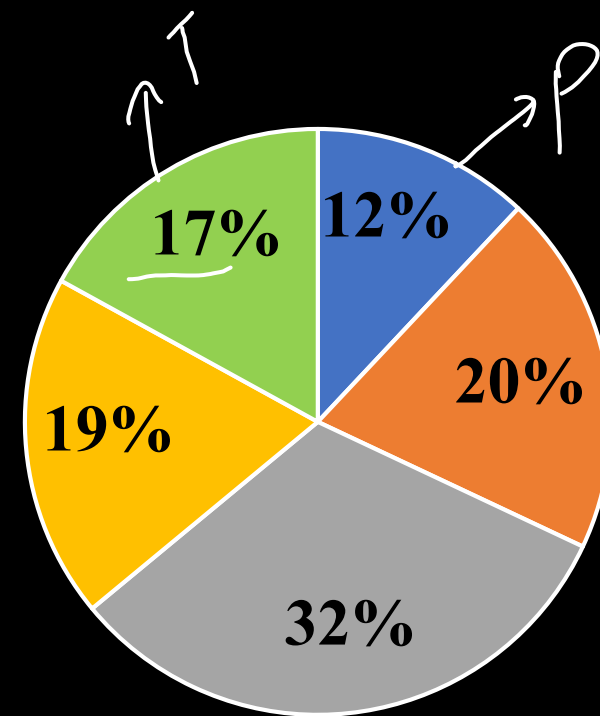
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Question 4- Total number of boys in T is what percent more or less number of girls in P.

प्रश्न 4- T में लड़कों की कुल संख्या, P में लड़कियों की संख्या से कितने प्रतिशत अधिक या कम है?

- A. 21.66%
- B. 41.66%
- C. 28.66%
- D. 34.44%
- E. ~~None of these~~

CITY	BOYS:GIRL
P	2:1
Q	4:1
R	1:3
S	1:2
T	2:1





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$$\textcircled{1} \text{ Boys } T = \frac{2}{3} \text{ of } 17\% \text{ of } 1800$$
$$= 204$$

$$\text{Girls } P = \frac{1}{3} \text{ of } 12\% \text{ of } 1800$$
$$= 72$$

$$\% = \frac{204 - 72}{72} \times 100$$

$$\% = \frac{22 \times 11 \times 50}{72 \times 12 \times 63} \times 100$$

$$= \frac{550}{3} \% = 183.33\%$$



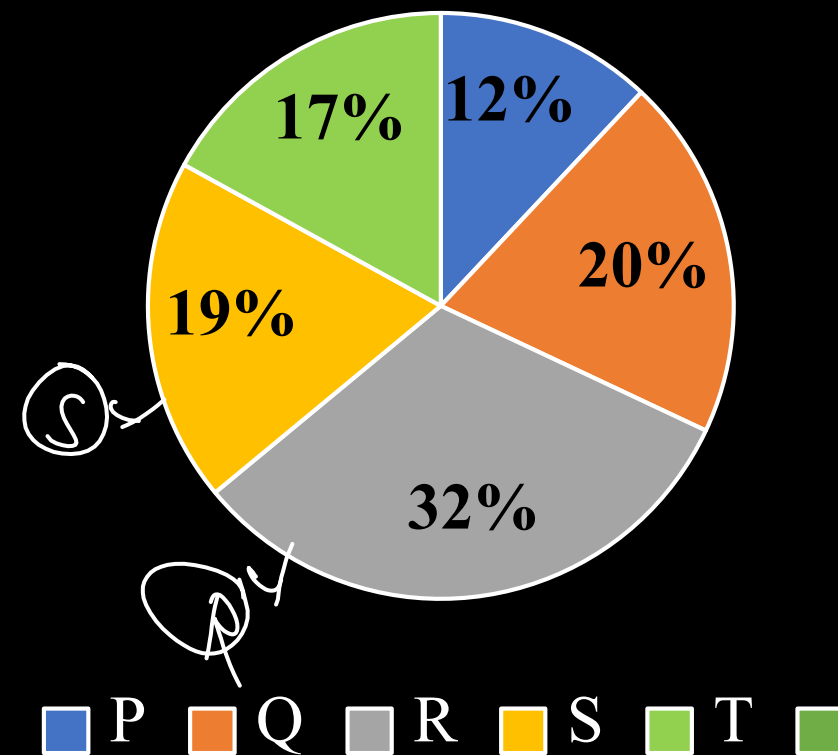
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Question 5- Total number of boys in R and S is what percent of total strength of students.

प्रश्न 5- R और S में लड़कों की कुल संख्या, छात्रों की कुल संख्या का कितना प्रतिशत है?

- A. 8%
- B. 12%
- C. 15%
- D. 24%
- E. ~~None of these~~

CITY	BOYS:GIRL
P	2:1
Q	4:1
R	1:3
S	1:2
T	2:1





$$\textcircled{1} \text{ Boy R + Boy S} = \frac{1}{4} \times 32\% \text{ of } 1800 + \frac{1}{3} \times 19\% \text{ of } 1800$$

$$= 144 + 114$$

$$= 258$$

$$\% = \frac{258}{1800} \times 100 = \frac{43}{3}\% = 14.33\%$$



Question 6- If the number of students in school U is 40% less than the total number of students in all school. If the ratio between boys and girls is school 7:5 then find difference between them.

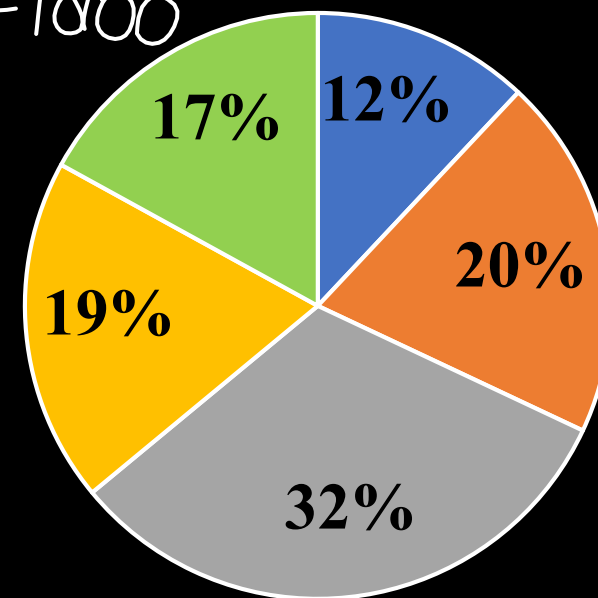
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प्रश्न 6- यदि विद्यालय U में छात्रों की संख्या सभी विद्यालय में छात्रों की कुल संख्या से 40% कम है। यदि लड़कों और लड़कियों के बीच का अनुपात स्कूल 7: 5 है, तो उनके बीच का अंतर ज्ञात कीजिये।

- A. 110
- B. 130
- C. 140
- D. 120
- E. None of these

CITY	BOYS:GIRL
P	2:1
Q	4:1
R	1:3
S	1:2
T	2:1

Total = 1800





$$\textcircled{1} \text{ Total} = 1800$$

$$\begin{aligned} \text{Students in U} &= 60\% \text{ of } 1800 \\ &= 1080 \end{aligned}$$

$$B:G = (7:5) \rightarrow 12 = 1080$$

$$\text{Diff} \quad 1 = 90$$

$$2 = 90 \times 2$$

$$= 180$$



Question 7- $\sqrt{196} \times \sqrt{144} \times 20\% \text{ of } 500 = ? + 1256$

प्रश्न 7- $\sqrt{196} \times \sqrt{144} \times \frac{100}{500}$ का 20% = ? + 1256

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$$\begin{array}{r} 14800 \\ 744 \\ \hline 15544 \end{array}$$

$$14 \times 12 \times 100 = x + 1256$$

$$x = 16800 - 1256$$

$$= \underline{\underline{15544}}$$

A. 12644

B. 14644

C. 23544

D. 21544

E. None of these



Question 8- $12 \times 15 + 27 - ? = 32\%$ of ~~400~~

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$$180 + 27 - x = 128$$

$$x = \underline{\underline{79}}$$

- A. 59
- B. 49
- C. 39
- D. 79
- E. None of these



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Question 9- 25% of 880 + 16% of 525 - 22% of 450 = ?

प्रश्न 9- 880 का 25% + 525 का 16% - 450 का 22% = ?

$$= \frac{1}{4} \times \overset{220}{\cancel{880}} + \frac{4}{25} \times \overset{21}{\cancel{525}} - \frac{11}{50} \times \overset{9}{\cancel{450}}$$

$$= 220 + 84 - 99$$

$$= \underline{\underline{205}}$$

A. 203

B. 103

C. 403

D. 133

E. None of these



Question 10- 25% of 20% of 950 + 6 × 75 = ?

प्रश्न 10- 950 के 20% का 25% + 6 × 75 = ?

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$$\begin{aligned} x &= \frac{1}{4} \times \frac{1}{5} \times 950 + 450 \\ &= \underline{\underline{497.5}} \end{aligned}$$

A. 497.5

B. 197.5

C. 297.5

D. 335.5

E. None of these



30) $P \rightarrow \left(\frac{+12}{2}, \frac{+7}{2} \right) \quad Q \rightarrow \left(\frac{+9}{2}, \frac{+8}{2} \right)$

$P \rightarrow (+6, +3.5) \quad Q \rightarrow (+4.5, +4)$

$P > Q$
 $P < Q$

Question 11-

(i) $2p^2 - 19p + 42 = 0$

(ii) $2q^2 - 17q + 36 = 0$

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(i) $p > q$

(ii) $p < q$

(iii) $p \geq q$

(iv) $p \leq q$

~~(v)~~ $p = q$ or relation can't be established,



30 $P \rightarrow \left(\frac{+16}{2}, \frac{+7}{2} \right)$ $Q \rightarrow \left(\frac{+14}{4}, \frac{+8}{4} \right)$

$P \rightarrow (+8, +3.5)$ $Q \rightarrow (+3.5, +2)$

$\checkmark P > Q$
 $P = Q$

Question 12-

(i) $2p^2 - 23p + 56 = 0$

(ii) $4q^2 - 22q + 28 = 0$

(i) $p > q$

(ii) $p < q$

(iii) $p \geq q$

(iv) $p \leq q$

(v) $p = q$ or relation can't be established,

$\checkmark P < Q$

$\checkmark P < Q$



30 $P \rightarrow \left(-\frac{4}{2}, -\frac{3}{2} \right) \quad Q \rightarrow \left(-\frac{12}{4}, \frac{4}{4} \right)$

$P \rightarrow (-1.53, -1.5) \quad Q \rightarrow (-3, -1)$

$P < Q$
 $P > Q$

Question 13-

(i) $3p^2 + 7p + 4 = 0$

(ii) $4q^2 + 16q + 12 = 0$

(i) $p > q$

(ii) $p < q$

(iii) $p \geq q$

(iv) $p \leq q$

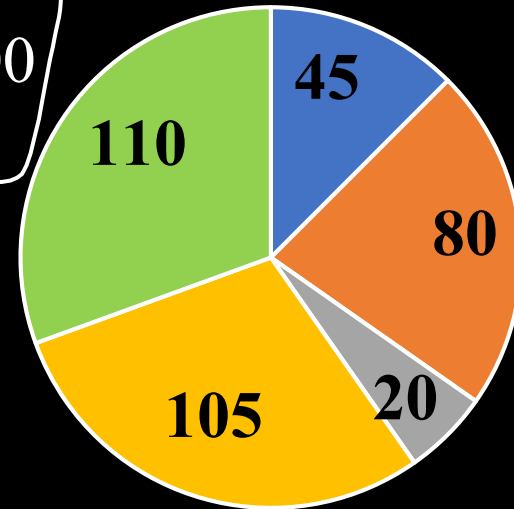
~~(v)~~ $p = q$ or relation can't be established,



The given pie chart shows the total expenditure of a person in different section in degree.

दिया गया पाई चार्ट डिग्री में विभिन्न वर्गों में एक व्यक्ति के कुल व्यय को दर्शाता है।

Exp. TOTAL = RS 12000



■ D ■ T ■ O ■ E ■ I ■



Question 14- Find the total expenditure done in section E.

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प्रश्न 14- खंड E में किया गया कुल व्यय ज्ञात कीजिए।

A. Rs 2500

B. Rs 3500

C. Rs 4500

D. Rs 5500

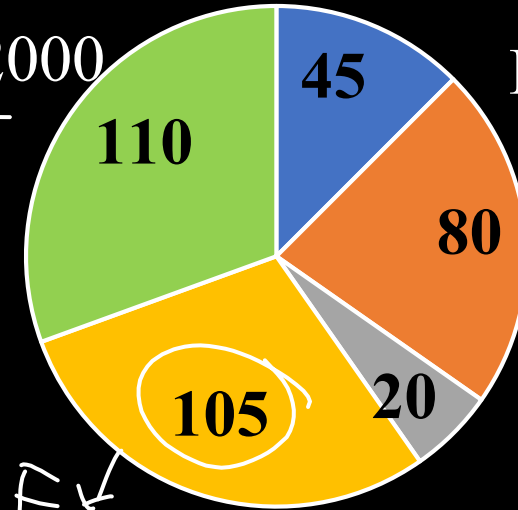
E. None of these

$$360^\circ = ₹ 12000$$

$$1^\circ = \frac{12000}{360} = \frac{100}{3} \text{ Rs.}$$

$$\begin{aligned} \text{E } 105^\circ &= \frac{100}{3} \times 105 \\ &= ₹ 3500 \end{aligned}$$

Exp. TOTAL = RS 12000



■ D ■ T ■ O ■ E ■ I ■



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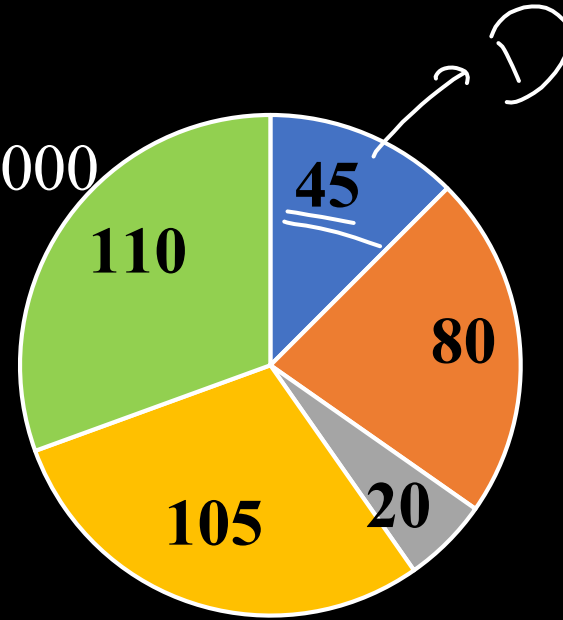
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Question 15- The expense in section D constitutes what percent value in the pie chart.

प्रश्न 15- अनुभाग D में व्यय पाई चार्ट में कितने प्रतिशत मूल्य का गठन करता है?

$$\% = \frac{45}{360} \times 100 = 12.5\%$$

TOTAL= RS 12000



- A. 10%
- B. 14.5%
- C. 22.5%
- ~~D. 12.5%~~
- E. None of these





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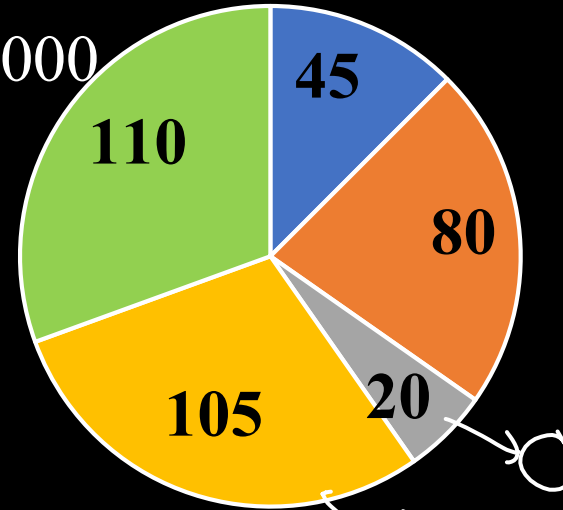
Question 16- Expense in E is what percent of expense in O.

प्रश्न 16- E में व्यय, O में व्यय का कितना प्रतिशत है?

$$\% = \frac{105}{20} \times 100 = \underline{\underline{525\%}}$$

- A. 125%
- B. 225%
- ~~C. 525%~~
- D. 425%
- E. None of these

TOTAL= RS 12000



■ D ■ T ■ O ■ E ■ I ■



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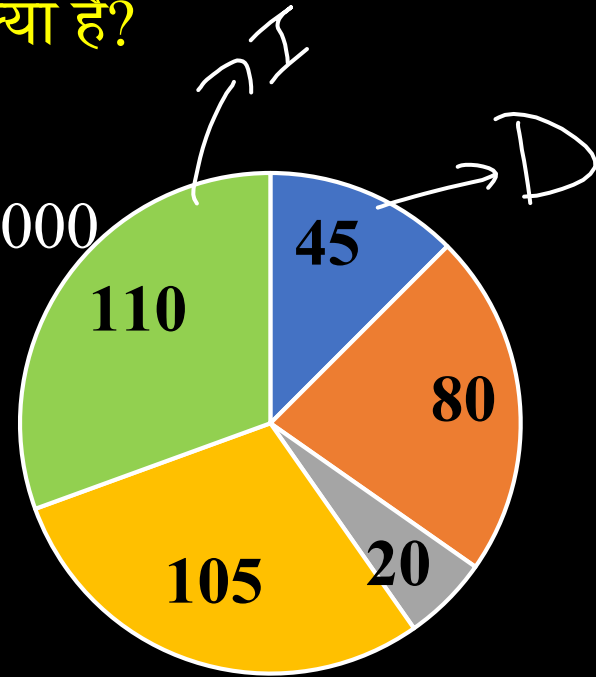
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Question 17- If he spend on house rent 20% more than the I , then what is the ratio of expenditure between D and house rent.

प्रश्न 17- यदि वह मकान के किराए पर I से 20% अधिक खर्च करता है, तो D, मकान के किराए के बीच व्यय का अनुपात क्या है?

4

TOTAL= RS 12000



- A. 11:43
- B. 13:44
- C. 17:44
- ~~D. 15:44~~
- E. None of these





① ^I
 $1^\circ = \frac{100}{3} \text{ Rs.}$

$$11^\circ = \frac{100}{3} \times 11 \text{ Rs.}$$

$$\text{House rent} = \frac{2}{5} \times \frac{20}{3} \times 110$$

$$D = \frac{100}{3} \times \frac{15}{45} = 1500$$

= ₹ 4400

$$\begin{aligned} \text{Ratio} &= 1500 : 4400 \\ &= \underline{\underline{15 : 44}} \end{aligned}$$

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