



SBI CLERK 2023



रफ्तार Batch

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

MATHS

Day-5



हल करो सब कुछ चुटकियों में

LIVE

11:00 AM



**30**Question 1- $1/5 \times (4856 \times 0.5) \times 15 = ?$

$$= \frac{1}{5} \times \left(\overset{2428}{4856} \times \frac{1}{2} \right) \times 15$$

$$x = \underline{\underline{7284}}$$

- A. 7284
- B. 7784
- C. 3460
- D. 4460
- E. None of these



30

Question 2- 70% of 1680 + $?$ % of 1500 = 55% of 2820 - 880

प्रश्न 2- 1680 का 70% + 1500 का ?% = 2820 का 55% - 880

$$1176 + 15x = \frac{11}{20} \times 2820 - 880$$

$$15x = 1551 - 880 - 1176$$

$$15x = 1551 - 2056$$

$$3 \times 15x = -505$$

$$x = \frac{-505}{3} = -33.66$$

A. 23.66

B. 33.66

C. 44.66

D. 55.66

E. None of these



30

$$\frac{1}{14} \times \frac{36}{396}$$

Question 3- $?^2 - 28 - 11 = 9.09\%$ of $396 + 286$

प्रश्न 3- $?^2 - 28 - 11 = 396$ का $9.09\% + 286$

$$x^2 - 39 = 36 + 286$$

$$x^2 = 322 + 39$$

$$x^2 = 361$$

$$x = 19$$

==

A. 21

B. 29

~~C. 19~~

D. 13

E. None of these



30

$$\begin{array}{r}
 16000 \checkmark \\
 1200 \checkmark \\
 80 \\
 4 \\
 \hline
 17284
 \end{array}$$

$$\begin{array}{r}
 3000 \\
 555 \\
 36 \\
 \hline
 3591
 \end{array}$$

1

Question 4 - $\underline{\underline{222}}.\underline{\underline{44}} + \underline{\underline{33}}.\underline{\underline{4444}} + \underline{\underline{3}}.\underline{\underline{444}} + \underline{\underline{3333}}.\underline{\underline{4}} = ?$

$$= \underline{\underline{3592.7284}}$$

$$\begin{array}{r}
 222.4400 \\
 3333.4000 \\
 33.4444 \\
 3.4440 \\
 \hline
 \end{array}$$

- A. 2592.7284
- B. 1592.7284
- C. 3592.7284
- D. 3192.7284
- E. None of these



30

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

$$\frac{x}{100} \times (\frac{152}{19} \times 55) = 132$$

$x = 30$

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



30

$$p \rightarrow \left(\frac{-45}{10}, \frac{-8}{10} \right) \quad q \rightarrow (-18, +8)$$

$$p \rightarrow (-4.5, -0.8)$$

$$\begin{array}{l} p > q \leftarrow \\ p < q \leftarrow \end{array}$$

Question 6-

$$(i) 10p^2 + 53p + 36 = 0$$

$$(ii) q^2 + 10q - 144 = 0$$

$$(i) p > q$$

$$(ii) p < q$$

$$(iii) p \geq q$$

$$(iv) p \leq q$$

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

$$360 \begin{array}{l} \swarrow 45 \\ \searrow 8 \end{array}$$

$$144 \begin{array}{l} \swarrow 18 \\ \searrow 8 \end{array}$$



30 $p \rightarrow \left(\frac{-45}{10}, \frac{-4}{10} \right)$ $q \rightarrow (-17, +10)$

$p \rightarrow (-4.5, -0.4)$

$p > q$
 $p < q$

Question 7-

(i) $10p^2 + 49p + 18 = 0$

(ii) $q^2 + 7q - 170 = 0$

(i) $p > q$

(ii) $p < q$

(iii) $p \geq q$

(iv) $p \leq q$

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

$180 \leftarrow \begin{matrix} 45 \\ 4 \end{matrix}$



30

$P \rightarrow (-17, +15)$ $Q \rightarrow (-17, -4)$

$P = Q$
 $P < Q$
 $P > Q$

Question 8-

(i) $p^2 + 2p - 255 = 0$

(ii) $q^2 + 21q + 68 = 0$

(i) $p > q$

(ii) $p < q$

(iii) $p \geq q$

(iv) $p \leq q$

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



30 $P \rightarrow \left(+\frac{15}{10}, -\frac{8}{10} \right)$ $Q \rightarrow (+22, +9)$

$P \rightarrow (+1.5, -0.8)$

$\checkmark P < Q$

Question 9-

(i) $10p^2 - 7p - 12 = 0$

(ii) $q^2 - 31q + 198 = 0$

(i) $p > q$

~~(ii) $p < q$~~

(iii) $p \geq q$

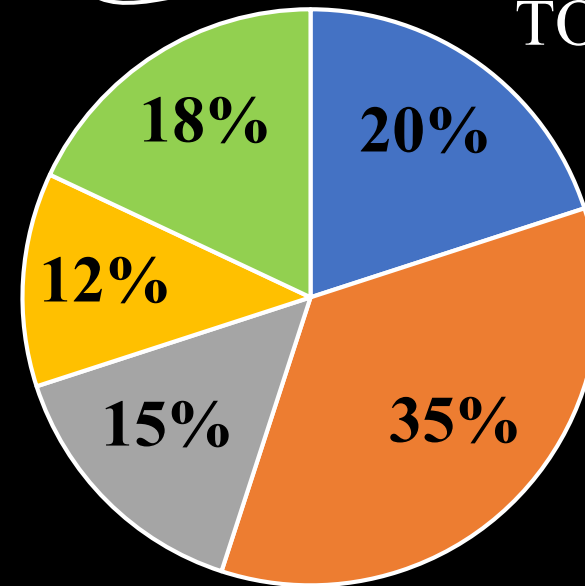
(iv) $p \leq q$

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



The given pie chart shows the total number of boys in different school and the ratio between the boys and girl in the given schools is 10:7

दिया गया पाई चार्ट विभिन्न स्कूलों में लड़कों की कुल संख्या को दर्शाता है और दिए गए स्कूलों में लड़कों और लड़कियों के बीच का अनुपात 10:7 है



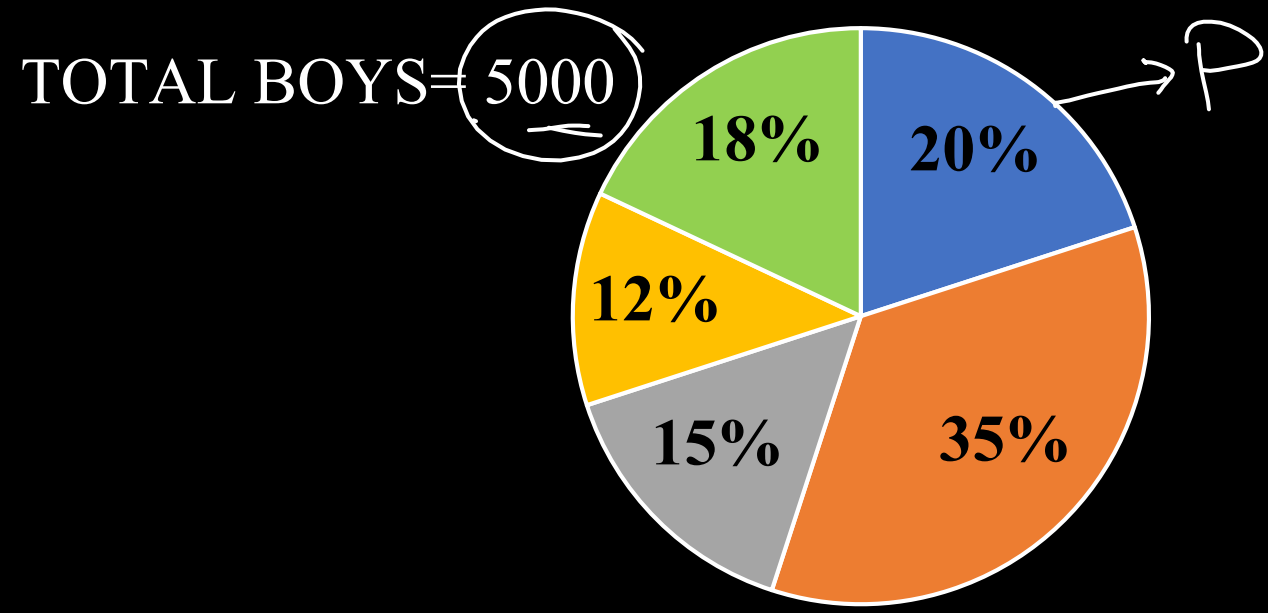
■ P ■ Q ■ R ■ S ■ T ■ U



B:G=10:7

Question 10- If the ratio between the boys population and girls population of P is $\frac{5}{10} : 3$ then the girl population of P is what percent of the total girls population ?

प्रश्न 10- यदि P की लड़कों की जनसंख्या और लड़कियों की जनसंख्या के बीच का अनुपात $\frac{5}{10} : 3$ है, तो P की लड़कियों की जनसंख्या कुल लड़कियों की जनसंख्या का कितना प्रतिशत है?





① Boys P = 20% of 5000
= 1000

Total girls =

$$B:G = 5:3$$

$$5 = 1000$$

$$1 = 200$$

$$\begin{aligned} \text{Girls} &= 200 \times 3 \\ &= 600 \end{aligned}$$

$$B:G = 10:7$$

$$10 = 5000$$

$$1 = 500$$

$$\begin{aligned} G &= 7 \times 500 \\ &= 3500 \end{aligned}$$

$$\% = \frac{600}{3500} \times 100$$

$$= \frac{120}{7} = 17.1\%$$

A. 7.5%

B. 8.5%

C. 12.5%

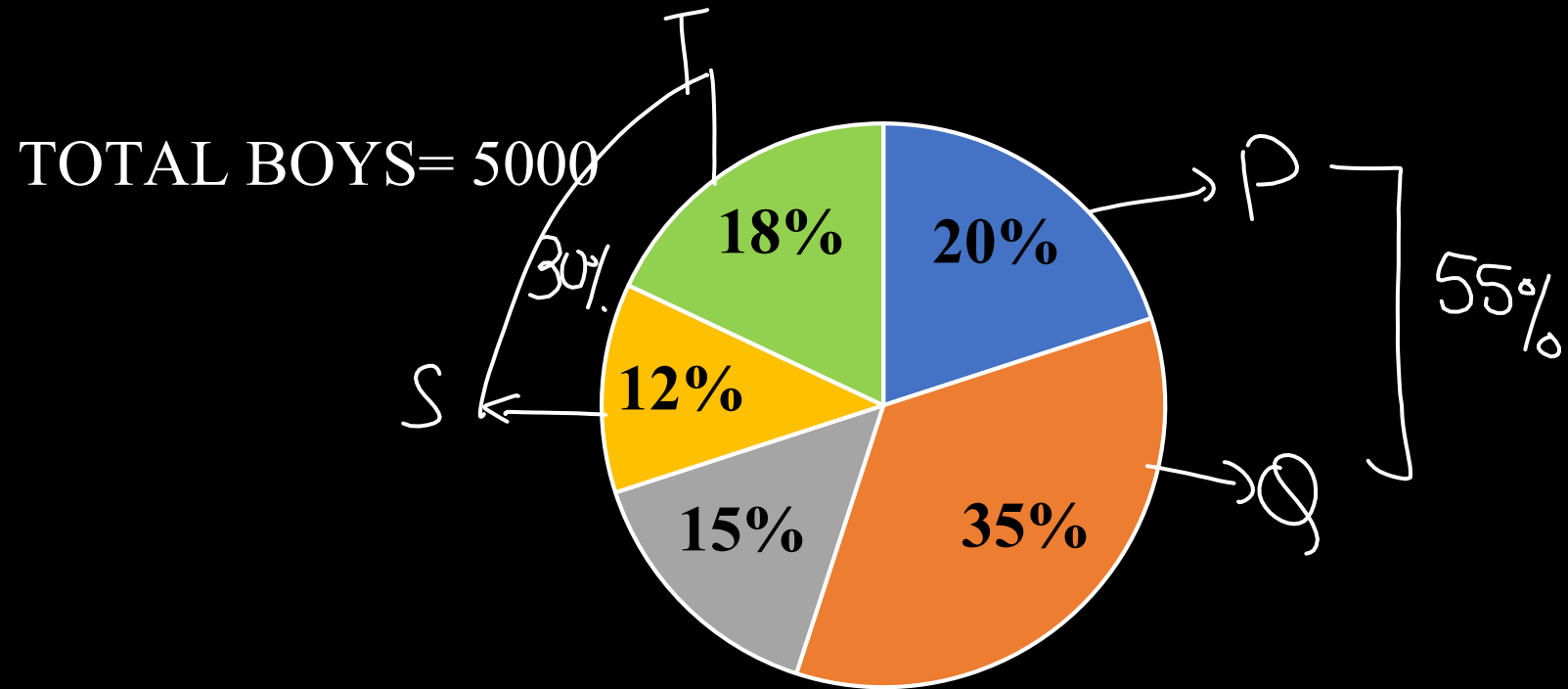
D. 10.5%

~~E. None of these~~



Question 11-Total boys of P and Q together are what percent more/less than the total boys of S and T together?

प्रश्न 11- P और Q के कुल लड़के मिलाकर S और T के कुल लड़कों की तुलना में कितने प्रतिशत अधिक/कम हैं?





$$\begin{aligned} \textcircled{1} \text{ Boys } (P+Q) &= 55\% \\ \text{Boys } (S+T) &= 30\% \end{aligned} \left. \vphantom{\begin{aligned} \text{Boys } (P+Q) &= 55\% \\ \text{Boys } (S+T) &= 30\% \end{aligned}} \right\} \text{Diff} = 25\%$$

$$\% = \frac{25}{30} \times 100$$

$$= \frac{250}{3} = 83.33\%$$

A. 44.33%

B. 54.33%

C. 75.33%

D. 83.33%

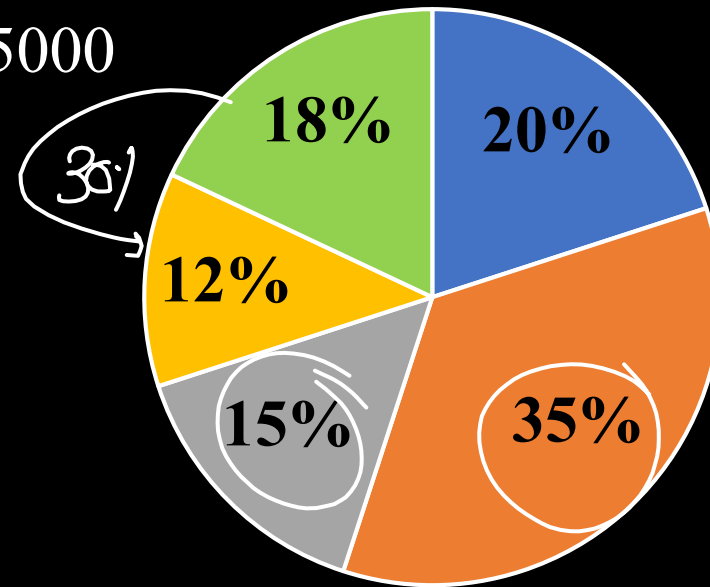
E. None of these



Question 12- Find the difference between the average boys of Q and R together and the average boys of S and T together.

प्रश्न 12- गांव Q और R की औसत पुरुष जनसंख्या और S और T की औसत पुरुष जनसंख्या के बीच का अंतर ज्ञात कीजिए।

TOTAL BOYS = 5000





$$\text{Average Q \& R} = \frac{50\% \text{ of } 5000}{2} = \frac{2500}{2} = 1250$$

$$\begin{aligned} \text{Average S \& T} &= \frac{30\% \text{ of } 5000}{2} \\ &= \frac{1500}{2} = 750 \end{aligned}$$

$$\begin{aligned} \text{Diff} &= 1250 - 750 \\ &= \underline{\underline{500}} \end{aligned}$$

A. 70

B. 55

C. 75

D. 80

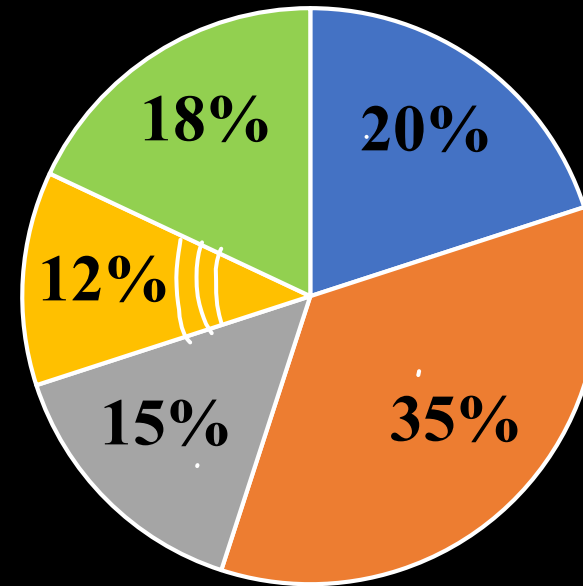
~~E. None of these~~



Question 13- Find the corresponding central angle for number of boys in S.

प्रश्न 13- S में लड़कों की संख्या के लिए संबंधित केंद्रीय कोण ज्ञात कीजिये।

TOTAL BOYS= 5000



A. 43.2°

B. 53.2°

C. 73.2°

D. 33.2°

E. None of these

<https://t.me/mathbytarunsirmepl>





$$\textcircled{1} \quad 100\% = 360^\circ$$

$$1\% = \frac{360}{100}$$

$$12\% = \frac{360}{100} \times 12$$

$$= \frac{216}{5} = \underline{\underline{43.2^\circ}}$$

$$1\% = \underline{\underline{3.6^\circ}}$$

<https://t.me/mathbytarunsirmepl>