



# SSC MTS/HAWALDAR/CHSL



**MATHS**

**RATIO**

**&**

**PROPORTION**

तैयारी जीत की...



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**14.4 Paper-I (Computer Based Examination):**

<b>Part</b>	<b>Subject</b>	<b>Number of Questions/ Maximum Marks</b>	<b>Time Duration (For all four Parts)</b>
I	General English	25/ 25	90 Minutes (120 Minutes for candidates eligible for scribes as per para 8.1 and 8.2)
II	General Intelligence & Reasoning	25/ 25	
III	Numerical Aptitude	25/ 25	
IV	General Awareness	25/ 25	

14.4.1 Paper-I will consist of Objective Type, Multiple choice questions. The questions will be set both in English & Hindi for Part-II, III & IV.

14.4.2 There will be negative marking of 0.25 marks for each wrong answer. Candidates are, therefore, advised to keep this in mind while answering the questions.

**Numerical Aptitude:** It will include questions on problems relating to Number Systems, Computation of Whole Numbers, Decimals and Fractions and relationship between Numbers, Fundamental arithmetical operations, Percentages, Ratio and Proportion, Averages, Interest, Profit and Loss, Discount, use of Tables and Graphs, Mensuration, Time and Distance, Ratio and Time, Time and Work, etc.



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**A : B = 2 : 3    B : C = 5 : 7    A : B : C = ?**





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**A : B = 5 : 7    B : C = 2 : 11    A : B : C = ?**





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**A : C = 2 : 7    B : C = 2 : 11    A : B : C = ?**





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**A : B = 2 : 3    B : C = 1 : 5    C : D = 7 : 11    A : B : C : D = ?**







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**A : B = 2 : 3    B : C = 1 : 5    C : D = 7 : 11    A : B : C : D = ?**





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**A : B = 2 : 5    B : C = 3 : 7    C : D = 11 : 13    A : B : C : D = ?**





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**A : B : C = 2 : 3 : 7      B : C : D = 6 : 14 : 15      A : B : C : D = ?**





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$A : B = 2 : 3$      $B : C = 9 : 11$      $C : D = 22 : 23$      $A : D = ?$





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If  $a : b = 2 : 3$ ,  $b : c = 4 : 5$  and  $c : d = 6 : 7$ , then  $a : d = ?$





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If  $5A = 13B = 7C$ ; find the value of  $A : B : C$ ?

यदि  $5A = 13B = 7C$ ;  $A : B : C$  का मान ज्ञात कीजिए ?





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If  $11A = 7B = 2C$ ; find the value of  $A : B : C$ ?

यदि  $11A = 7B = 2C$ ;  $A : B : C$  का मान ज्ञात कीजिए ?





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If 30% of A = 0.25 of B = 1/5th of C, then A : B : C is equal to ?  
यदि A का 30% = B का 0.25 = C का 1/5, तो A : B : C किसके बराबर है?







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If  $x : y = 4 : 5$ ,

Then  $(3x + y) : (5x + 3y) = ?$





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$$\frac{A}{(B+C)} = \frac{1}{3} \quad \frac{B}{(C+A)} = \frac{5}{7} \quad \frac{C}{(A+B)} = ?$$





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$$\frac{A}{(B+C)} = \frac{2}{3} \quad \frac{B}{(C+A)} = \frac{4}{5} \quad \frac{C}{(A+B)} = ?$$





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$$\frac{(A+B)}{C} = 7$$

$$\frac{(B+C)}{A} = 8$$

$$\frac{(C+A)}{B} = ?$$





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$$(A + B) : (B+C) : (C+A) = 6: 7: 8$$

$$A+B+C = 14$$

$$C = ?$$





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$$M = \frac{(a+b+c)}{2}$$

$$(m-a) : (m-b) : (m-c) = 17:5:8 \quad a:b:c = ?$$





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# MEAN PROPORTION

## माध्य अनुपात





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# THIRD PROPORTION

## तीसरा अनुपात







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# FOURTH PROPORTION

## चौथा अनुपात



