







# A Request from Exampundit Team

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### **Ratio and Proportion for SSC CGL/CHSL Tier I Exams**

1) Find the mean proportion of 81 and 9	d) None of the above
a) 18	4) Income of A is 40% less than the income of B and
b) 17	expenditure of A is 40% of B's expenditure. If income of A is 70% of expenditure of B then find the ratio
c) 23	between the saving of A and B.
d) 27	a) 8 : 15
2) If $x+2$ , $x - 1$ , 4 and 3 are in proportion then find	b) 9 : 5
the mean proportional to x and $4x^2$	c) 9 : 25
a) 15	d) 7 : 13
b) 20	5) Some amount Rs. x was divided among A, B, C and
c) 10	D in the ratio $1/5$ : $1/2$ : $1/3$ : $1/4$ . If the difference
d) 12	between the shares of A and C is Rs.560 then find the
	total amount x (in rupees)
3) The ratio of men and women in a group is 5:2.If 6	a) 6000
men and 6 women left the group then the ratio	
becomes 8:3.Find the total number of people in the	b) 5480
group initially?	c) 5390
a) 220	d) 5400
b) 230	
c) 210	

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6) Three numbers are in ratio 2 : 3 : 5. If the sum of	d) 14
the squares of those three numbers is 342 then find the sum of the three numbers	9) If the ratio of three sides of a triangle is 3 : 4 : 5 then find the difference between the smallest and
a) 50	largest angle. (in degrees)
b) 40	a) 30°
c) 30S	b) 15°
d) 60	c) 45°
7) If A : B = 4 : 5 and C : B = 7 : 6 then find the ratio	d) 50°
between A : B : C	10) If 4A = 5B = 6C then find the ratio of A : B : C
a) 24 : 5 : 30	a) 12 : 15 : 10
b) 24 : 30 : 35	b) 10 : 12 : 15
c) 24 : 35 : 30	c) 15 : 10 : 12
d) 30 : 35 : 24	d) 15 : 12 : 10
8) The total number of 3 different colored pens in a	11) If A is twice of B and C is twice of B then find the
box is 91. If the ratio between red colored and green	ratio of A:B:C is:
colored pen is 5 : 2 and the number of green pen is 33	
1/3% of blue pens then find the difference between	a) 1 : 2 : 2
the red colored and green colored pen.	b) 2 : 1: 2
a) 28	c) 2 : 3 : 4
b) 35	d) 1: 2 : 3
c) 21	
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12) If $A : B = 5 : 4$ and A is 19 more than B then find	c) 63 : 54 : 52
the sum of A and B.	d) None of the above
a) 175	15) The ratio of number of boys and girls in a school
b) 171	is 2 : 3. If 30% of girls is 6 more than the 30% of boys
c) 185	then find the total number of students in the school.
d) 186	a) 80
13) The ratio of marks obtained by Suresh in half	b) 60S
yearly examination to Annual examination is 9/10. If	c) 70
he got 50 marks more in half yearly examination then the ratio would have been become 1 : 1. Find the total	d) 100
marks for which he wrote the half yearly exam if the	16) A bag contains 25 P coins 50 P coins and 1 rupee
mark obtained in the same exam is 45% of the total	coins in the ratio 10: 5: 2, amounting to Rs. 112. Find the total number of coins in the bag.
marks.	a) 242
a) 600	b) 172
b) 750	c) 272
c) 1000	d) 232
d) 950	17) Find the third proportion to 16,64
14) If A : B = 5 : 4 and C : B = 8 : 7 then find the	a) 246
value of A + B : B + C : C + A	b) 236
a) 63 : 60 : 67	c) 256
b) 60 : 51 : 53	d) 634

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18) If $a/(b + c) = 1 : 2$ then find the ratio between $a/(a + c) = 1 : 2$	21) The ratio between the valid and invalid vote is 4 :
+ <b>b</b> + <b>c</b> )	1. If 70% of valid vote is equal to 6300 then find the
a) 2/3	difference between the valid and invalid votes.
b) 3/4	a) 7450
c) 5/6	b) 7250
d) 1/3	c) 6650
19) If $a/(b - c) = 3 : 2$ then find the value of $(a - b + c)$	d) 6750
c)/(a + b - c)	22) The ratio between the prices of two articles is 5:6.
a) 1/5	If the price of first article is increased by 20% and the
,	price of second by 33 1/3% then find the new ratio.
b) 2/5	a) 3:4
c) 5/1	b) 4:3
d) 5/7	c) 2:3
20) The ratio between the passed to fail student in an exam is 3:4.If 10 more students passed the ratio	d) 3:2
would have been 23:19.Out of the students passed	23) Find the ratio of A, B and C if A is 30% more
1/3 <sup>rd</sup> are boys then find the total number of girls who	than B and B is 20% more than C.
passed in exam.	
	a) 39 : 34 : 25
a) 44	b) 39 : 30 : 25
b) 56	c) 29 : 30 : 25
c) 36	d) 39 : 30 : 28
d) 24	
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<ul> <li>24) The number of people in a village is 6400. If the ratio between then male to female population is (x + 2) : (x + 4) then find the value of x</li> <li>a) 3199</li> <li>b) 3201</li> <li>c) 3197</li> <li>d) 3204</li> <li>25) If the ratio between A, B and C is 5 : 7 : 9 then find the ratio between 1/A, 1/B and 1/C.</li> <li>a) 63 : 47 : 35</li> <li>b) 63 : 45 : 35</li> <li>d) 64 : 45 : 35</li> </ul>	<ul> <li>27) Three persons A, B and C went to hotel and paid the bill amount of Rs. 600 in the following way. A paid half of the amount paid by both B and C , B paid 1/5<sup>th</sup> of the amount paid by both A and C then find the amount paid by C.</li> <li>a) 200</li> <li>b) 300</li> <li>c) 100</li> <li>d) 400</li> <li>28) The ratio between the number of pen and pencils is 5 : 6 and the ratio of cost of per pen and pencil is 4 : 3 then find the percentage by which total cost of pen is greater than the total cost of pencil.</li> <li>a) 12.23%</li> <li>b) 11.11%</li> </ul>
26) If $a/7 = b/3 = c/5$ then find the ratio between a,b and c	c) 13.15%
a) 3 : 4 : 5	d) 14.56%
b) 3 : 6 : 7	29) If A : B + C = 2 : 5, B : A + C = 1 : 2 then find C :
c) 7 : 3 : 5	<b>A</b> + <b>B</b> ? a) 8 : 13
d) 5 : 7 : 3	a) 8 : 15 b) 5 : 13

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c) 13 : 8	b) 280
d) 13 : 5	c) 320
<ul> <li>30) Total income of A and B is Rs.5000 if A save 20% and B saves 30% and their savings are in the ratio 4:9. Find their individual income.</li> <li>a) 1500, 3500</li> <li>b) 1700, 3300</li> <li>c) 1000, 4000</li> <li>d) 2000, 3000</li> </ul>	<ul> <li>d) 480</li> <li>33) The ratio between cost of two idly and one dosa is</li> <li>2 : 5 and the ratio between cost of one idly and two dosa is 1 : 10 then find the ratio between three idly and two dosa.</li> <li>a) 2 : 15</li> <li>b) 3 : 10</li> <li>c) 3 : 20</li> </ul>
31) Ravi's expenditure and savings is in the ratio 3 : 1	
<ul> <li>if the income increases by 50% and expenses increases by 20% then find the percentage increase in savings</li> <li>a) 75%</li> <li>b) 50%</li> <li>c) 100%</li> </ul>	<ul> <li>d) 4 : 13</li> <li>34) Some amount was divided among A, B and C in the ratio 4 : 6 : 9. If the share of A is 50 less than share of C then find the 1/5<sup>th</sup> of total amount (in Rs).</li> <li>a) 48</li> <li>b) 38</li> </ul>
d) 125%	c) 45
<ul><li>32) If A and B is in the ratio 3:2 and the difference between them is 8 then find the difference between their squares</li><li>a) 160</li></ul>	<ul> <li>d) 35</li> <li>35) Income of A and B is in the ratio 6 : 7, their expenses is in the ratio 4 : 3 if their savings are</li> </ul>

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Rs.2000 and Rs.4000 then find the sum of their incomes (in Rs.)	38) The ratio of nur ratio of number of
a) 12000	difference between of goat is 80 then fin
b) 14000	a) 30
c) 13000	b) 12
d) 13500	c) 20
36) If the ratio of income of Raj and Raghu is $y^2/x^2$ and the ratio of their saving is $y/x$ then find the ratio	d) 24
of expenditures	<b>39) If the ratio bet</b>
a) $y(y-1)/x(x+1)$	25 if the difference
	find the value of A <sup>3</sup>
b) $y(1-y)/x(1-x)$	a) 64
c) $y(y+1)/x(x+1)$	b) 729
d) $y(y + 1)/x(x - 1)$	c) 1000
37) Rs. 1500 was divided among A and B such that if Rs.50 and Rs.25 is deducted from the shares of A and	d) 512
B respectively then the ratio becomes 34:23. Find the	40) The ratio of ma
difference between their shares	in an entrance exa
a) 350	more than the cut
b) 450	than the cut off sco
b) 450	a) 32
c) 300	b) 34
d) 900	
	I

38) The ratio of number of hen to goat is 2 : 3 and the ratio of number of legs of hen and goat is 1 : 3. If the difference between the total legs of hen and total legs of goat is 80 then find the total number of hens.

**39**) If the ratio between the squares of A and B is 9 : 25 if the difference between their squares is 144 then find the value of A<sup>3</sup>.

40) The ratio of marks obtained by Ram and Raghu in an entrance examination is 4 : 5. Raghu score is 5 more than the cut off score and Ram score is 3 less than the cut off score then find the cutoff score.

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#### c) 35

d) 38

41) Sita and Geetha had some number of stones initially in the ratio 9:11. Sita gave some number of stones to Geetha then the ratio becomes 7 : 13 then find what fraction of stones are given to Geetha by Sita against her initial value.

a) 6/7

b) 8/9

```
c) 2/9
```

d) 3/5

42) A and B contest in an election, if the ratio between the valid votes and the vote got by A is 5:3 and the ratio of invalid votes and vote got by B is 1:2 and the ratio between the valid and invalid votes is 5:1 then find the ratio between the votes got by A and B.

b) 2:1

c) 3:2

a) 2:3

d) 1:2

43) A and B participated in an election. If the ratio between the valid and invalid votes is 6:1 and out of

the valid votes if A got 20% of vote more than B then find the fraction of vote got by A out of total votes(including invalid votes)

a) 5/11

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b) 4/11

c) 36/77

d) 37/77

44) If the area of rectangle is 168 sq units and ratio between the length and breadth is in the ratio 14 : 3 then find the difference between the length and breadth.

a) 24

b) 22

c) 14

d) 16

45) If A : B : C : D = 4 : 6 : 7 : 9 and A + C = 3454then find the sum of A and B.

- a) 3250
- b) 3140
- c) 3540

d) 3658

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46) If A : B = 4 : 5 , B : C = 8 : 9 and C : D = 6 : 7	d) 1
then find the value of A : B : C : D a) 64 : 80 : 90 : 107	49) The ratio of number of students in class A,B and C is 7:9:11.If the students increased by 10%,15% and 25% respectively in classes A,B and C then find the
b) 65 : 80 : 90 : 105	new ratio of students after increment.
c) 64 : 80 : 90 : 105	a) 144:207:275
<ul> <li>d) 64 : 81 : 90 : 105</li> <li>47) Find the fourth proportion of 14, 18, 28</li> </ul>	b) 154:217:275
a) 26	c) 154:207:275
b) 24	<ul> <li>d) 154:207:276</li> <li>50) If the ratio between A and B is 7 : 13 and A</li> </ul>
c) 36	increased by 24% and B decreased by 25% then find
d) 38	a) 168 : 329
48) x varies inversely as square of y and given that y=4 for x=4.Find the value of x for y=8	b) 168 : 325
a) 4	c) 168 : 345
b) 6	d) 168 : 327
c) 2	NEDS
1) Answer: D	Mean proportion of 81 and $9 = \sqrt{(81*9)} = 27$
Solution:	2) Answer: B
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Solution:	Then total number of people in the group initially = $5x + $
(x + 2)/(x - 1) = 4/3	2x = 7x = 7(30) = 210
3x + 6 = 4x - 4	4) Answer: B
X = 10	Solution:
Mean proportional to x and $4x = \sqrt{x \cdot 4x} = 2x$	Let income of B is 100x
=2(10) = 20	Then income of A is 60x
3) Answer: C	Let expenditure of B is 100y
Solution:	Then expenditure of A is 40y
Initially, $M : W = 5x : 2x$	Given, income of A is 70% of expenditure of B
After some people left then the ratio of $M : W = 8y : 3y$	60x = (70/100)100y
5x - 6 = 8y (1)	6x = 7y
2x - 6 = 3y - (2)	Saving of A/Saving of B = (60x – 40y)/(100x – 100y)
Solving (1) and (2) $x = 30$	Put the value of x in above
Then total number of people in the group initially = $5x + 3x + $	=(70y-40y)/((700y/6)-100y)
2x = 7x = 7(30) = 210	=30y/(100y/6)
Alternative Method	=9/5 = 9 : 5
5x - 6/2x - 6 = 8/3	5) Answer: C
X=30	Solution:
	A:B:C:D=(1/5)y:(1/2)y:(1/3)y:(1/4)y

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Let consider y=60 which is least common multiple of all denominators	Since B is common in both ratio, multiply A : B with 6 and B : C with 4
A : B : C : D = 12 : 30 : 20 : 15	Then, $A : B = 24 : 30$
A - C = 20y - 12y = 8y	B: C = 30: 35
8y = 560	Combining the above two ratios
Y = 70	A : B: C = 24 : 30 : 35
Total amount = $12y + 30y + 20y + 15y = 77y = 77(70) =$	8) Answer: C
5390	Solution:
6) Answer: C	R: G = $5x : 2x$
Solution:	G=33 1/3% of B
A: B: C = 2x: 3x: 5x	$2x = 33 \ 1/3\%$ of B
$A^2 + B^2 + C^2 = 4x^2 + 9x^2 + 25x^2 = 38x^2$	2x = (100/3)/100 of B
$38x^2 = 342$	B = 2x(300/100)
X = 3	B = 6x
A + B + C = 2x + 3x + 5x = 10x = 30	R: G: B = 5x: 2x: 6x
7) Answer: B	R + G + B = 91
Solution:	13x = 91
A : B = 4 : 5	X = 7
B: C = 6: 7	R - G = 5x - 2x = 3x = 3(7) = 21
	$\mathbf{K} = \mathbf{O} - J\mathbf{A} - Z\mathbf{A} - J\mathbf{A} - J(I) - 2\mathbf{I}$

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9) Answer: A	A: B = 2: 1
Solution:	C = 2B
Ratio of three sides = $3x : 4x : 5x$	C : B = 2 : 1
Sum of three sides = $3x + 4x + 5x = 180^{\circ}$	B: C = 1: 2
$12x = 180^{\circ}$	A: B: C = 2: 1: 2
X = 15°	12) Answer: B
Difference between smallest and largest angle = $5x - 3x$	Solution:
= 2x	A : B = 5 : 4
$=2(15) = 30^{\circ}$	Let x be the common multiplier then
10) Answer: D	$\mathbf{A}:\mathbf{B}=5\mathbf{x}:4\mathbf{x}$
Solution:	A = B + 19
Consider $4A = 5B = 6C = k$	5x = 4x + 19
A = k/4, B = k/5, C = k/6	X = 19
A: B: C = k/4: k/5: k/6	A + B = 5x + 4x = 9x
LCM of 4, 5 and 6 is 60.Consider this as k	=9(19) = 171
A : B : C = 60/4 : 60/5 : 60/6 = 15 : 12 : 10	13) Answer: C
11) Answer: B	Solution:
Solution:	H: A = 9: 10
A = 2B	10H = 9A(1)
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(H + 50) : A = 1 : 1	$\mathbf{B}:\mathbf{G}=2\mathbf{x}:3\mathbf{x}$
H + 50 = A (2)	30% of G = (30% of B) + 6
Put the value of A in (2)	30% of $3x = (30%$ of $2x) + 6$
H + 50 = 10H/9	9x/10 = 6x/10 + 6
9H + 450 = 10H	X = 20
H = 450	B + G = 2x + 3x = 5(20) = 100
Half yearly marks = $45\%$ of total marks	16) Answer: C
450 = 45% of Total	Let ratio be x.
Total marks 100% = 100*450/45 = 1000	Hence no. of coins be 10x, 5x, 2x respectively
14) Answer: A	Now given total amount $=$ Rs.112
Solution:	
A : B = 5 : 4	=>(10x)/4 + (5x)/2 + (2x) = 112
B: C = 7: 8	We get $x = 16$
A: B: C = 35: 28: 32	The total number of coins=10*16+5*16+2*16=272
The terms are: $A = 35x$ , $B = 28x$ , $C = 32x$	17) Answer: C
A + B : B + C : C + A = 63x : 60x : 67x	Solution:
A + B : B + C : C + A = 63 : 60 : 67	16:64::64:x
15) Answer: D	Third proportion to 16 and 64 is given by $= 64*64/16$
Solution:	=256
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18) Answer: D	P = 3F/4
Solution:	10 more students passed the exam
a/(b + c) = 1 : 2(1)	Then the ratio becomes,
By componendo method	(P + 10) : (F - 10) = 23 : 19
(a + b + c)/(b + c) = (1 + 2)/2 = 3/2 (2)	19P + 190 = 23F - 230
$(1) \div by (2)$	23F - 19P = 420(1)
a/(a + b + c) = 1/(1 + 2) = 1/3	Put the value of P in (1)
19) Answer: A	23F - 19(3F/4) = 420
Solution:	23F - 57F/4 = 420
a: $(b - c) = 3 : 2$	(92F - 57F)/4 = 420
By componendo method	35F = 420*4
(a + b - c)/(b - c) = 5/2(1)	F = 48
By dividendo method	P = 3(48)/4 = 36
(a - b + c)/(b - c) = 1/2(2)	(1/3)P = Boys who passed
(2) $\div$ (1)=> (a - b + c)/(a + b - c) = 1/5	Boys who passed = 12
20) Answer: D	Girls who passed = Total passed – Boys who passed
Solution:	= 36 - 12 = 24
Let P and F be the pass and failed students respectively	21) Answer: D
P: F = 3: 4	Solution:
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Valid : Invalid = 4 : 1	B = 120% of C
70% of valid vote = 6300	B/C = 6/5
100% = 100*6300/70 = 9000	A : B = 13 : 10
Valid – Invalid votes = $4x - x = 3x$	B: C = 6: 5
Since $4x = 9000$	A: B: C = 78: 60: 50
X=9000/4	= 39 : 30 : 25
3x = 3*9000/4 = 3*2250 = 6750	24) Answer: C
Difference between the valid and invalid votes $= 6750$	Solution:
22) Answer: A	Male : female = $(x + 2) : (x + 4)$
Solution:	Total population $= 6400$
Article 1: Article $2 = 5 : 6$	X + 2 + x + 4 = 6400
120% of article 1 : 133 1/3% of article 2 = 120%(5) : 133	2x + 6 = 6400
1/3%(6)	X + 3 = 3200
= (6/5)(5) : (4/3)(6)	X = 3197
= 6: 8 = 3: 4	25) Answer: C
23) Answer: B	Solution:
Solution:	A: B: C = 5: 7: 9
A = 130% of B	1/A: 1/B: 1/C = 1/5: 1/7: 1/9
A/B = 13/10	= 63 : 45 : 35
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26) Answer: C	Solution:
Solution:	Number => Pen : Pencil = 5x : 6x
Let $a/7 = b/3 = c/5 = k$	$Cost \Rightarrow Pen : pencil = 4y : 3y$
A = 7k, b = 3k, c = 5k	Total cost => Pen : Pencil = 20xy : 18xy
a:b:c = 7k:3k:5k	% greater= (20xy-18xy)*100/18xy
= 7 : 3 : 5	= 100/9 = 11.11%
27) Answer: B	29) Answer: A
Solution:	Solution:
Total bill amount: 600	A : $(B + C) = 2 : 5$ (Total 7) (1)
A: (B + C) = 1/2	B: $(A + C) = 1 : 2$ (Total 3) (2)
A + B + C = 600	As both sums should be same, multiply (1) by 3 and (2)
3A = 600	by 7
A = 200	(1) => A : (B + C) = 6 : 15
B: (A + C) = 1/5	$(2) \Rightarrow B : (A + C) = 7 : 14$
A + B + C = 600	Since $B = 7$ units, $C = 15 - 7 = 8$ units
6B = 600	C/(A+B) = 8/(6+7)
B = 100	= 8 : 13
C = 600 - 200 - 100 = 300	30) Answer: D
28) Answer: B	Solution:
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Let the income of A and B is x and y	= 6 - 18/5 = 12/5
X + y = 5000 (1)	Revised
20%x : $30%$ y = 4 : 9	Expenditure : Saving = 18/5:12/5
x/5: 3y/10 = 4:9	= 3 : 2 (2)
2x: 3y = 4: 9	On comparing (1) and (2)
x/y = 2/3	Saving is incremented by 1 unit which is equivalent to
Put the value of x in (1)	100%
2y/3 + y = 5000	32) Answer: C
5y/3 = 5000	Solution:
Y = 3000	A: B = 3: 2
X = 5000 - 3000 = 2000	A - B = 8
31) Answer: C	3 - 2 units = 8
Solution:	1 unit = 8
Expenditure : Saving = 3 : 1 (1)	A + B = 3 + 2 = 5 units
Income = $3 + 1 = 4$ units	$\mathbf{A} + \mathbf{B} = 40$
Income increases by $50\% = 150\%$ of 4 units =6 units	$A^2 - B^2 = (A + B)(A - B)$
Expenditure increases by $20\% = 120\%$ of 3 units = $18/5$	=40*8=320
units	Alternative method
Savings = Income – Expenditure	A: B = 3: 2
	1

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### **Ratio and Proportion for SSC Exams**

a-b=8	A: B: C = 4x: 6x: 9x
3x-2x=8	A = C - 50
X=8	4x = 9x - 50
$A^2-B^2=(3x)^2-(2x)^2$	X = 10
$=9x^2-4x^{2}=9*64-4*64$	A + B + C = 4x + 6x + 9x
=64*5=320	= 19x = 19*10 = 190
33) Answer: B	$1/5^{\text{th}}$ of $(A + B + C) = 190/5$
Solution:	= 38
Let the I and D be the Idly and Dosa respectively	35) Answer: C
$2I: D = 2: 5 \dots (1)$	Solution:
I: 2D = 1: 10 (2)	Income $A : B = 6x : 7x$
Comparing (1) and (2)	Expenses $A : B = 4y : 3y$
I: D = 1:5	Savings = 2000 : 4000
So price of one idly is 1 unit and one dosa is 5 unit	Income of A=> $6x = 4y + 2000$
$3I \cdot 2D - 3(1) \cdot 2(5)$	6x - 4y = 2000 (1)
3I: 2D = 3(1): 2(5)	Income of $B => 7x = 3y + 4000$
= 3 : 10	7x - 3y = 4000 (2)
34) Answer: B	Solving (1) and (2)
Solution:	X = 1000
A: B: C = 4: 6: 9	Sum of the incomes $= 6x + 7x = 13x$
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=13(1000) = 13000	A - B = 900 - 600 = 300
36) Answer: B	38) Answer: C
Solution:	Solution:
Ratio of income Raj : Raghu = $y^2/x^2$	Number=> Hen : Goat = 2 : 3
Ratio of savings Raj : Raghu =y/x	Number of legs=> Hen : Goat = 1 : 3
Ratio of expenditures = $(y^2-y)/(x^2-x)$	Let hen be H and goat be G
= y(y-1)/x(x-1)	Then $H: G = 2: 3$
=(-y)(1-y)/(-x)(1-x)	2H : 4G = 1 : 3 {legs count}
= y(1-y)/x(1-x)	H: 2G = 1:3
37) Answer: C	Difference between the legs = $2 \text{ parts} = 80$
Solution:	Then, 1 part = $40$
Let the shares be A and B	Since $H = 1$ part then Total number of hens $leg = 40$
(A - 50) : (B - 25) = 34 : 23	Number of hens = $40/2 = 20$ (As, 2 for 2 legs/hen)
23(A - 50) = 34(B - 25)	39) Answer: B
23A - 1150 = 34B - 850	Solution:
23A - 34B = 300 - (1)	$A^2: B^2 = 9: 25$
A + B = 1500 (2)	$B^2 - A^2 = 144$ (Since B>A)
Solving (1) and (2)	Put the value of $B^2$ in the above expression
A = 900  and  B = 600	$25A^2/9 - A^2 = 144$
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$16A^2/9 = 144$	Z = 32 + 3 = 35
$A^2 = 144*9/16$	41) Answer: C
A = 12*3/4 = 9	Solution:
$A^3 = 729$	Initially $S : G = 9x : 11x(Total 20x units)$
40) Answer: C	After exchange S : G = 7y : 13y (Total 20y uints)
Solution: Let marks obtained by Ram and Raghu is x and y	Irrespective of the exchange total units is same (i.e.) 20x = 20y
respectively.	The above expression is equal only when $x = y$
X : y = 4 : 5	So, fraction of stones given by Sita to Geetha against her
Let cut off score is z then	original = (9x - 7y)/9x
X = z - 3 and $y = z + 5$	Since $x = y$ , put $y = x$ in above expression,
Equating the above two expression for z then	=(9x-7x)/9x
X + 3 = y - 5	=2x/9x = 2:9
X - y = -8	42) Answer: C
Put the value of $y = 5x/4$ in above expression then	Solution:
X - 5x/4 = -8	Let A, B, V and IV be the votes got by A,B and valid and invalid votes respectively.
-x/4 = -8	V: A = 5: 3 (1)
X = 32	IV : B = 1 : 2 (2)
Since cut off score $z = x + 3$	V : IV = 5 : 1 (3)
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On comparing (2) and (3)	Let the length and breadth be l and b respectively
V : IV : B = 5 : 1 : 2 (4)	L: b = 14: 3
On comparing (4) and (1)	l*b = 168 (1)
V : IV : A : B = 5 : 1 : 3 : 2	Put the value of b in the above expression then
From the above,	3l/14 *l = 168
A: B = 3: 2	$l^2 = 56*14$
43) Answer: C	1 = 28
Solution:	Put $1 = 28$ in (1) then $b = 6$
Valid : Invalid = $6x : 1x$	Difference $1 - b = 28 - 6 = 22$
A : B = 6y : 5y (Since A = 120% of B)	45) Answer: B
Since total votes =7x	Solution:
Votes got by $A = 6y$	A: B: C: D = 4: 6: 7: 9
Votes got by A = (total valid votes*A's part)/(Total parts	A + C = 4x + 7x = 11x
of A and B)	3454 = 11x
= (6x*6)/11 = 6y (Votes got by A)	X = 3454/11
Votes by A: total votes = $6y : 7x$	= 314
=((6x*6)/11)/7x = 36/77	A + B = 4x + 6x = 10x
44) Answer: B	= 10(314)
Solution:	= 3140
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46) Answer: C	Since the given number are in proportion then,
Solution:	14/18 = 28/x
A: B = 4: 5 (1)	X = 28*18/14
B: C = 8: 9 (2)	X = 36
C: D = 6: 7 (3)	48) Answer: D
From (1) and (2)	Solution:
Multiply (1) by 8 and (2) by 5	$X = k/y^2$ (K is proportionality constant) (1)
Then, $(1) = A : B = 32 : 40$	Put the values of x and y
$(2) \Rightarrow B: C = 40: 45$	4 = k/16
Therefore	K = 64
A: B: C = 32: 40: 45 (4)	Put the value of y and k in (1)
From (4) and (3)	From equation (1)
Multiply (4) by 2 and (3) by 15	$x = 64/8^2 = 1$
Then(3) => C:D=90:105	49) Answer: C
(4) = A : B : C = 64 : 80 : 90	Solution:
Therefore,	A: B: C = 7: 9: 11
A : B : C : D = 64 : 80 : 90 : 105	After increment,
47) Answer: C	A : B : C = 110(7)/100 : 115(9)/100 : 125(11)/100
Solution:	= 77/10 : 207/20 : 55/4
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= 154 : 207 : 275	A : B = (24/100)(7) : (25/100)(13)
50) Answer: B	= (6/25)(7) : (13/4)
Solution:	= 42/25 : 13/4
A : B = 7 : 13	= 168 : 325
After respective increment and decrement	

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