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Ratio and Proportion Questions Railway Exams

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Ratio and Proportion Railway Group-D Exams

1) If a: b = 3 : 2, b : c = 6 : 5 and c : d = 2 : 9 find the	a) 6 : 7
	b) 7 : 6
a) 2 : 5	c) 5 : 7
b) 5 : 2	d) 3 : 4
c) 2 : 3	5) A number when divided into two parts in the ratio
d) 4 : 5	of 12 : 17. Due to which the greatest number becomes
2) The sum of two number's A and B is 30.If A is 5	15 more than the smaller. Find the original humber?
more than B .Find the ratio of A and B?	a) 87
a) 3 : 2	b) 96
b) 2 : 3	c) 88s
c) 5 : 2	d) 97
d) 4 : 5	6) If A : B = 2 : 3, B : C = 9 : 8, C : D = 2 : 5. If the
3) Two numbers are in ratio 3 : 7. If both being the multiple of 5 and 3 then find the numbers	A and D is 7 then find the sum of A and D?
respectively?	a) 39
a) 45 and 105	b) 26
b) 105 and 45	c) 52
c) 123 and 111	d) 48
d) Can't be determined	7) If A is 50% of B.B is 100% more than C and C is
4) The two number's are in ratio of 7:9.If both the	75% of D then what is the ratio of A and D?
numbers are increased and decreased by 20%	a) 3 : 4
respectively then find the ratio of new numbers?	Page 1 of 18



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b) 4 : 3	c) 47 years
c) 5 : 2	d) 78 years
 d) 5 : 7 8) Three numbers are in the ratio of 2 : 5 : 7. If the average of first and third number is 27 then find the 	12) A is thrice of B who is twice of C. If the difference of A and C is 20 years then find the age of B after 7 years?
ratio of sum to the product of numbers?	a) 15 years
a) 1 : 180	b) 20 years
b) 180 : 1	c) 10 years
c) 27 : 92	d) 12 years
d) 95 : 112	13) In a beaker, Solution A consists of water and wine
9) What is the third proportion of 10 and 30?	becomes 5 : 16?
a) 90	a) 40 litres
b) 45	b) 35 litres
c) 25	c) 45 litres
d) 35	d) 30 litres
10) Two numbers say a and b are in the ratio of 5 : 4. If a is first increased by 25% then decreased by 20% while b is first decreased by 25% and increased by 20% then find the new ratio?	14) Container A has 25% water in it and remaining is sanitizer. On adding 16 Litre of water ratio gets reversed. Find the initial Quantity of Solution?
a) 5 : 4	a) 8 litres
b) 4 : 5	b) 10 litres
c) 1 : 3	c) 6 litres
d) 2 : 3	d) 12 litres
11) The age of A and B is in the ratio 5:6.Before 38 years ratio was 6:11.Find the present age of A?	15) The ratio of radius of circle to the side of square is7 : 5. The circumference of circle is 308 cm. Find the perimeter of square?
a) 50 years	
	a) 140 cm
b) 45 years	a) 140 cm b) 70 cm

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c) 280 cm	d) 3/11
d) 150 cm	20) If A : B : C = 9 : 8 : 6.Find the value of (1/A) : (1/B) : (1/C) ?
16) Two circle say C_1 and C_2 with radius in the ratio of 4 : 3. If the perimeter of the bigger circle is 176cm then find the perimeter of smaller circle?	a) 9 : 8 : 12
a) 132cm	b) 8 : 9 : 12
b) 156cm	c) 9 : 8 : 7
b) 150cm	d) 8 : 7 : 9
c) 121cm d) 120 cm	21) If (A + B) : (B + C) : (C + A) = 8 : 7 : 6 .Find A:B:C ?
17) The weight of the two person A and B is in the	a) 4 : 4 : 3
ratio 5 : 8. The average of their weight is 39 kg. Find the difference of their weight?	b) 3 : 4 : 4
a) 18 kg	c) 4 : 3 : 4
b) 24 kg	d) 1 : 2 : 4
c) 12 kg	22) If 'X' is subtracted from each of the numbers 22,46, 18 and 34 then they will be in proportion find
d) 16 kg	value of 'X'?
18) In a school, the ratio of girls and boys is 4:5.	a) 10
6:7. How many girls are there in the school?	b) 8
a) 1200	c) 15
b) 1500	d) 17
c) 1800	23] LNCT, Bhopal is having seats of civil, mechanical and electrical branch in the ratio of 3 : 4 : 7. If there
d) 1600	is an increment of 30%, 40%, 50% respectively in it
19) A fraction bears the same ratio to 1/3 as 8/7 does to 8/11. What is the fraction?	a) 52 : 42 : 105
a) 11/21	b) 105 : 42 : 52
b) 21/11	c) 40 : 30 : 70
c) 11/3	d) 20 : 30 : 50 Page 3 of 18

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24) There are two numbers a and b. If 40% of 3/8 of a is equal to 62.5% of 3/11 of b is equal then find the ratio between a and b?	28) If a building having 'N' number of flats, ratio of broadband users to non broad band users is 10 : 7. If the ratio of AIRTEL to BSNL user is in the ratio of 7
a) 25 : 22	: 3. If the difference between non-user to BSNL is 100 then find the value of 'N'?
b) 22 : 25	a) 425
c) 100 : 23	b) 400
d) 24 : 25	c) 500
25) In a city the ratio of male to female is in the ratio of $5:8$ 40% of the city females are employed and	d) 900
60% of the city people are male. Find Ratio of unemployed male to female?	29) Marks scored by Sumit in Maths, Science, English is in the ratio of 9 : 8 : 7. If the average marks is 80 then find the marks scored in maths?
a) 5 : 12 b) 1 2 :5	a) 90
c) 5 : 13	b) 70
d) 6 : 17 26) A is 8 more than B who is 16 more than C and	c) 80 d) 60
ratio of $A : C = 4 : I$. Find the value of $A + B + C$? a) 64	the third proportion of 20 & 30?
b) 32	a) 8 : 5
c) 128	b) 5 : 8
d) 57	$\begin{array}{c} c \\ c$
27) If a number 'X' is added to 42, 140, 50 and 164	
a) 7	 31) Indian Army has tank to missile is in the ratio of S 6. If due to some terrorist activity 40 tanks were destroyed and 32 missile were launched such that the
b) 1	new ratio becomes 3:4 then find the number of initial tanks ?
d) 4	a) 160
u/ -	b) 320

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c) 140	a) 16 kmph
d) 170	b) 20 kmph
32) In a notification of SSC stated vacancy in the	c) 12 kmph
ratio of 18 : 5 which means on every 18 vacancy there is 5 vacancy reserved for ex-service men. If the	d) 18 kmph
number of application by ex-service men was 5000 and 4350 were rejected till final round then find the total vacancy?	36) A village has population of 'P' in which voter to non-voter ratio is 8 : 9. In which male voters to female voters ratio is 2 : 3. If the difference of non -
a) 2340	voters to female voters is 1800 then find the total population 'P'?
b) 2400	a) 5100
c) 2380	b) 2700
d) 2540	c) 6800
33) (A + C) : (B + C) : C = 7 : 9 : 5. Find the value of C - A if A is greater than by B by value 8?	d) 5900
a) 12	37) A sum of money s divided among A,B,C in such a
b) 21	times C's share are equal .The ratio between the
c) 8	
d) 6	a) 5:3:2
34) An article with MP : CP = 9 : 5 and also profit =	b) 2:3:5
26%. Given is the MP is 540 more than SP. Find the	c) 6:10:15
	d) 15:10:6
a) 1000	38) A bag contains some eggs in it. After 10 minutes
b) 800	he buys some mangoes and now the ratio of egg to mangoes becomes 4 : 7 after some time he buys a
c) 900	dozen of orange and now the ratio becomes 8 : 11 :
d) 1200	6.Find the number of eggs in the bag?
35) The Speed of boat to the stream is in ratio of 8 : 1.	a) 16
If boat speed is increased by 25% then it will cover downstream distance in 10 hours. (Distance of 220	b) 20
kms).Find the Actual speed of boat	c) 12

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43) Two person A and B entered into partnership

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d) 19

39) A container has 37.5% of water in it and rest is pure milk. If Anil puts 20 litre of pure milk in it then water will be 25% in it then find the initial quantity	with the initial investment of 8 : 9 and that of time being is 8 : 5.if the profit of A is 16000.Find the initial investment of B?
of water?	a) 11250
a) 15 litres	b) 12250
b) 9 litres	c) 12500
c) 10 litres	d) 13500
d) 12 litres	44) The prices of a Mobile and a refrigerator are in
40) Two number's say A and B are in the ratio 3:8. If A is 24 then find the value of B?	the ratio of 6:7.If a refrigerator costs 3000 more than a Mobile, then find out the price of Mobile
a) 64	a) 18000
b) 36	b) 21000
c) 81	c) 24000
d) 58	d) 20000
41) Income of A and B is in the ratio 4: 3 and that of saving is 3 : 2. If the expenditure of A is 2500 then	45) If (a/d) = (b/e) = (c/f) = 5 : 1 then find (a + b + c) : (d + e + f) = ??
find the income of B?	a) 15 : 1
a) 7500	b) 1 : 15
b) 5000	c) 5 : 1
c) 10000	d) 5: 8
d) 1200	46) What value must be decreased from 6 : 7 to
42) If (A + B) : (A - B) = 7 : 5 then find the ratio of 2A : 3B ?	obtain 7 : 6? a) 13
a) 4 : 1	b) 10
b) 1 : 4	c) 2
c) 3 : 4	d) 9
d) 3 : 5	

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47) The price of a petrol is decreased by 6.66% due to which sale was increased by 10%.If initial price was 64/- then find the new revenue?	49) A : B : C = 3 : 4 : 2.If C is increased by 50% while B is decreased by the same due to which C becomes 120. Find the value of A?
a) 660	a) 90
b) 640	b) 120
c) 650	c) 150
d) 655	d) 170
48) If the ratio of income of P and Q is 3 : 1. The ratio of their expenditure is in ratio of 8 : 3 and the ratio of their saving is 4:1. The sum of their saving is 5000. Find the income of P?	50) The ratio of a article's cost price and selling is 8 : 9. The CP of the article is increased by 50 rupees and that of SP is increased by 200 rupees the ratio becomes 11 : 13. Find the increased SP of the article?
a) 12000	a) 2990
b) 9000	b) 2790
c) 15000	c) 2870
d) 16000	d) 2345

ANSWERS

1) Answer: A	Solution:
Solution:	Given, sum of two numbers A and B is 30
$a: b = 3: 2 \dots (1)$	A + B = 30(1)
b: c = 6:5(2)	A - B = 6(2)
$c: d = 2: 9 \dots (3)$	On solving both the equations we get,
From above equations we will find a : d,	A = 18
a:b:c:d= 36 : 24 :20 :90	B = 12
a : d = 36 : 90	3) Answer: A
a : d = 2 : 5	Solution:
2) Answer: A	Let the two numbers be A and B in the ratio 3 : 7
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<pre>If both the numbers are multiple of 3 and 5 then it must be a multiple of 15.</pre> Hence we can say that A and b will be 45 and 105. 4) Answer: B Solution: Let the given numbers be A and B in the ratio of 70 and 90 It is given that both the numbers are increased by 20% and then decreased by 20% respectively. New value of A = 120% of 70 New value of B = 80% of 90	 6) Answer: A Solution: A : B = 2 : 3(1) B : C = 9 : 8(2) C : D = 2 : 5(3) A : D = 36 : 120 A : D = 3 : 10 Difference between A and D is 7 units which is equals 21 value. So 1 unit = 3 value Sum of A and D is 13 units. So by multiplying 13*3 =
 A : B=120% of 70: 80% of 90 A : B = 7 : 6 5) Answer: A 	Difference between A and D is 7 10x-3x=21
Solution: Let the number be x. If this number is further break in the ratio of 12 : 17 then the bigger number say 17 units will be 15 values greater than 12 units.	7x=21 X=3 Sum of A and D is 10x+3x=13x=39
 1 unit = 15 value 1 unit = 3 value Since the number is breaking into 12 and 17 unit so the sum will be 29 units which is equal to x. So the number will be 29*3 = 87 	7) Answer: A Solution: A : B = 1 : 2(1) B : C = 2 : 1(2)
Alternative method 17x-12x=15 X=3 12x+17x=12*3+17*3=87	C : D = 3 : 4(3) From above equations we can find A : D = 3 : 4 8) Answer: A Solution:

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Let the number be $2x$, $5x$ and $7x$.	Net change = 0
So the sum of first and last number will be 9x and the	So the ratio will be remained unchanged.
average of these numbers will 27.	11) Answer: A
Hence,	Solution:
9x = 54	Age of A and B is in ratio 5 : 6(1)
$\mathbf{x} = 6$	Age of A and B before 38 years will be 6 :
The ratio of sum to the product of numbers will be,	11(2)
=14 * 6 : 70 * 6 * 6 * 6	As we know that the difference between their ages will
= 1 : 180	be same.
9) Answer: A	Difference in eq (1) is 1 and eq (2) is 5 so we will multiply by 5 in eq (1) and we will get
Solution:	A:B = 25:30
Third proportion can be calculated as,	Before 38 years,
10:30:: 30:x	A: B = 6: 11
X=30*30/10	So difference will be 19 unit = 38 years
X = 90	1 unit = 2 years
10) Answer: A	Present age of $A = 25*2 = 50$ years.
Solution:	12) Answer: A
Let the numbers be 50 and 40.	Solution:
Applying procedure on first term a,	Deducing the first statement we get,
Using successive formula;	A : B = 3 : 1
a + b + a * b / 100(1)	B: C = 2: 1
+25% + -20% + (25)*(-20)/100	Balancing the ratio we get,
Net change = 0	A: B: C = 6: 2: 1
Applying procedure on first term b,	Here the difference is 5 units which is equal to 20 years.
-25% + 20% + (+25)*(20)/100	So 1 unit = 4 years

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Present age of B is 8 years and age of B After 7 years will be 15 years.	25% : 75%
13) Answer: A	1 : 3 (water : sanitizer)eq (1)
	Final ratio of mixture 3 : 1 (water : sanitizer)eq (2)
Ratio of water and wine is in ratio 3 : 8	Since only 16 litre of water is added so that sanitizer should be balanced.
After adding 8 litres of wine it becomes 5 : 16	So multiply equation (2) by 3 we get,
We can see that we have only added wine so the	1 : 3eq (1)
concentration of water must be same in both the equations.	9 : 3eq (2)
Balancing both the equations by multiplying 3 and 5 to	8 units = 16 litres
make it 15.	1 unit = 2 litres
Ratio of water and wine is in ratio 15 : 40	So initial quantity was 4 unit $* 2 = 8$ litres
After adding 8 litres of wine it becomes 15 : 48	Alternative Method
So 8 units will be equals to 8 litre	Initial ratio of mixture
1 unit = 1 litre	25% : 75%
Initial wine $= 40$ litre	1 : 3 (water : sanitizer)eq (1)
Alternative Method	Final ratio of mixture 3 : 1 (water : sanitizer)eq (2)
Ratio of water and wine is in ratio 3 : 8	x/3x+16=3/1
After adding 8 litres of wine it becomes 5 : 16	x=2
3x/8X+8=5/16	So initial quantity=4x=8 litres
48x=40x+40	15) Answer A
X=5	Solution:
Initial wine $=8X=40$ litre	Datio of radius of size to the side of square is $7 \cdot 5$
	Ratio of faulus of circle to the side of square is 7.5
14) Answer A	Circumference = $308 = 2\pi r$
14) Answer A Solution:	Ratio of factors of circle to the side of square is 7.5 Circumference = $308 = 2\pi r$ Radius(r) = 49 cm
14) Answer A Solution: Initial ratio of mixture	Ratio of factors of circle to the side of square is 7.5 Circumference = $308 = 2\pi r$ Radius(r) = 49 cm So side of square will becomes 35 cm

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Perimeter of square = $4 * \text{side} = 140 \text{ cm}$	Number of boys=5x
16) Answer A	4x/5x-100=6/7
Solution:	2x=600
Two circle say C_1 and C_2 with radius in the ratio of $4:3$	X=300
Perimeter of the bigger circle is 176 cms = 2π r Eq (1)	Number of girls=4x=1200
On solving above we get $r_1 = 28$	19) Answer: A
On comparing with the ratio's we get radius of smaller circle = 21 cm	Solution:
So perimeter of smaller circle = 132 cm	X:1/3=8/7:8/11
17) Answer: A	X=11/21
Solution:	20) Answer: B
Weight of the two person's A and B is in the ratio 5 : 8	Solution:
The average of their weight is 39 i.e $(A + B) = 78 \text{ kg}$	If $A : B : C = 9 : 8 : 6$
Sum of their weight is 13 units = 78 kg	Taking LCM of them we get 72
1 unit = 6kg Difference of their weight in units = 3 units	Now dividing 72 by unit's of A, B, C we can get our respected ratios.
3 units * 6 kg = 18 kg	Value of $(1/A)$: $(1/B)$: $(1/C) = 8:9:12$
Alternative Method	21) Answer: A
5x+8x/2=39	Solution:
13x=78	$(A + B) : (B + C) : (C + A) = 8 : 7 : 7 \dots (1)$
X=6	Let $A + B = 8$ units(2)
Difference of their weight=8x-5x=3x=18 kg	B + C = 7 units(3)
18) Answer: A	C + A = 7 units(4)
Solution:	(A + B) + (B + C) + (C + A) = 22 units
Let number of girls=4x	2(A + B + C) = 22 units

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A + B + C = 11	Let the two numbers be a and b.
$A + 7 = 11 \Rightarrow A = 4;$	Now according to the given condition,
$B + 7 = 11 \Rightarrow B = 4$	(40/100) * (3/8) * a = (5/8) * (3/11) * b
C + A + B = 11	a : b = 25 : 22
$C + 8 = 11 \Rightarrow C = 3$	25) Answer: A
Taking ratios of $A : B : C = 4 : 4 : 3$	Solution:
22) Answer: A	Ratio of Male to female $= 5:8$
Solution:	Let take the value of male and female $= 50$ and 80
This type of questions must always be approached with	Total female = 80
option,	40% of female are employed
It is clear that 15 can never be because it will be reduced the first term very much.	Employed female = $80 * (40/100) = 32$
Let's take $X = 10$ and subtract from each term	Unemployed female $= 80 - 32 = 48$
We will get,	Total Male = 50
12:36::8:24	Unemployed male = $50 * (40/100) = 20$
1 : 3 :: 1 : 3	Employed Male = $50 - 20 = 30$
23) Answer: A	Ratio of unemployed male to female $= 20:48$
Solution:	\Rightarrow 5 : 12
Ratio of seats as given respectively 4: 3:7	26) Answer: A
Let's take the values are 40, 30 and 70 respectively	Solution:
Now there is an increment in it is 30%, 40% and 50%	A is 8 more than B means A - B = 8 (1)
respectively.	B who is 16 more than C means B - C = 16 (2)
So we get	Adding both the equations we get
New ratio will be 52 : 42 : 105	A - C = 24 (3)
24) Answer: A	Ratio of A : $C = 4 : 1(4)$
Solution:	So the difference in units will be 3 units = 24 value
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So 1 unit = 8 value.	Total population = 17 units
So A = 32, B = 24 and C = 8	Total population = $17 * 25 = 425$
A + B + C = 64	29) Answer: A
27) Answer: A	Solution:
27) Answer: A Solution: This type of questions must always be approached with option, It is clear that 1 can never be the answer because it will be reduced the first term very much. 42 : 140:: 50: 164 Let's take X = 7 and add from each term we will get, 49 : 147 :: 57 : 171 1 : 3 :: 1 : 3 28) Answer: A Solution: Total numbers of flats in a building = N Ratio of broadband users to non users is $10:7$ N Broadband : Non broadband users 10 : 7 AIRTEL : BSNL 7 : $3The difference between non broadband users to BSNL is 100$	Solution: Marks in Maths, Science, English is in the ratio of $9:8:7$ Maths = 9x; Science = 8x; English = 7x Average = 80 So sum will be $80*3 = 240$ Total = $9x + 8x + 7x = 24x$ 24x = 240 x = 10 Marks in maths = $9*10 = 90$ 30) Answer: A Solution: Mean proportion of $81 \& 64 = \sqrt{81*64} = 72$ Third proportion = $a/b = b/c$ 20/30=30/x x = 45 Desired ratio will be = $72:45$ = 8:5 31) Answer A
In term of units it is 4 units.	Solution:
So this 4 units will be equal to 100	Let the number of Tanks and missiles are in the ratio 5:6
1 unit = 25 value	Forming equation we get,
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(5x - 40) / (6x - 32) = 3 / 4	CP: MP: P: SP: D = 50: 90: 13: 63:
On solving above equation we get $x = 32$	27(3)
So initial tanks = $32 * 5 = 160$	It is given that MP is 540 more that SP which is equal to 27 units
32) Answer: A	1 unit = 20 value
Solution:	CP = 50 units * 20 = 1000/-
Ratio of vacancy to reserved for ex-service men 18 : 5	35) Answer: A
Given: 5000 candidate applied and 4350 rejected so 650 were finally selected and this will also be the vacancy by	Solution:
SSC.	The Speed of boat to the stream is in ratio of 8 : 1
We can say that 5 unit = 650	If the speed is increased by 25% then it will becomes 10 units
1 unit = 130 post	Now downstream will be 11 units
18 unit = 2340 vacancy.	11 maite 220 / 10
33) Answer: A	11 umts = 2207 10
Solution:	11 unit = 22 value
If $(A + C) : (B + C) : C = 7 : 9 : 5$	1 unit = 2 value
From above we can say that If we assume $C = 5$ then $B = 4$ and $A = 2$ units.	Speed of stream is 2 kmph
	Increased speed of boat is 20 kmph
Given is A is greater than B by 8.So B - $A = 2$ units = 8	So actual value must be 80% of $20 = 16$ kmph
value	36) Answer: A
1 unit = 4	Solution:
C - A = 3 unit * 4 = 12	Total population is 'P'
34) Answer: A	Voters : Non-voters
Solution:	8 . 9
MP : CP = 9 : 5(1)	Mala · famala
profit = 26% = CP : P = 50 : 13(2)	
Making common ratios we get-	2 : 3

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Difference of Non-voters and female is 1800 which is	So new ratio becomes 1 : 3(2)
Equal to 6 units	3x/5x+20=1/3
So 1 unit = 300 value	9x = 5x + 20
Total population = 17 units	X=5
Total population = 17 units * $300 = 5100$	So initial quantity of water $= 3 x = 15$ litres.
37) Answer: C	40) Answer: A
Solution:	Solution:
5A=3B=2C	Let the two be 3y and 8y
5A/30=3B/30=2C/30	
A/6=B/10=C/15	According to the condition,
A:B:C=6:10:15	3x / 8x = 24 / B
38) Answer: A	$\mathbf{B} = 64$
So) Allswei . A	41) Answer: A
Solution:	Solution:
Final ratio becomes 8 : 11 : 6 after buying one dozen orange.	Income of A and B is in the ratio 4 : 3
1 dozen =12	Saving of A and B is in the ratio 3:2
So 12 is denoted as 6 here.	From above statement we can say that if income of A is 4 unit and Saving is 3 then expenditure of A will be 1
So multiplying completely by 2.	unit and this is equal to 2500/
We get	Income of B will be 3 units and it will be equals to $3 * 2500 - 7500/$
16:22:12	2500 = 7500/-
Hence we can say that egg in the bag was 16 in numbers.	
39) Answer: A	42) Answer: A
Solution:	Solution:
37.5% = 3/8 means 3 is water then 5 is milk	Let's assume them as equations,
So the ratio of water to milk is $3:5$ (1)	A + B = 7(1)
Anil mute 20 litre of mills then water becomes 25% in it	A - B = 5(2)
Ann puts 20 nute of milk then water becomes 25% in it.	Page 15 of 18

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Solving equations we get,	Since the given expression is in proportion.
A = 6 and B = 1	So we can compare them term wise.
The ratio of 2A : 3B	We can observe that $a = b = c = 5k$ (let)
2 * 6 : 3 * 1	And, $d = e = f = 1k$ (let)
4 : 1	Putting all value's in the equations, we get
43) Answer: A	(a + b + c) : (d + e + f) = 15 : 3 = 5:1
Solution:	46) Answer: A
Initial investment 8 : 9	Solution:
Time Ratio8 : 5	Let the number to be decreased be x.
Total investment 64 : 45	So we will make equation as follows,
Profit of A is 16000	(6-x)/(7-x) = 7/6
64 unit = 16000	X = 13
1 unit = 250	47) Answer: A
Initial investment of $B = 45$ units * 250	Solution:
Initial investment of $B = 11,250$	Price of petrol is decreased by $6.66\% = 1 / 16$
44) Answer: A	So initial price = 16 Final price = 15
Solution:	Sale was increased by $10\% = 1/10$
Let the price of refrigerator=7x	So initial value = 10 Final price = 11
Let the price of Mobile =6x	Initial revenue = 160 Final revenue = 165
According to the Question	(All values are in units)
7x-6x=3000	16 unit = 64 rupees
X=3000	1 unit = 4 rupees.
Price of mobile =6x=18000	Final revenue = 660/-
45) Answer: C	48) Answer: A
Solution:	Solution:

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49) Answer: B
Solution:
Given ratio is 3 : 4 : 2(1)
If C increased by 50% while B is decreased by 50% then ratio becomes,
3 : 2 : 3(2)
Now C becomes 120.So 3 unit = 120
1 unit = 40
3unit = 120
A=120
50) Answer: A
Solution:
Let the CP and SP of the article be 8x and 9x.So
according to the condition we will form equation,
(8x + 50) / (9x + 200) = 11 / 13
On Solving above equation we get $x = 310$
Initial SP = 9 * 310 = 2790
Incremented $SP = 2990$

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