	Ratio and Proportion
Q.No	Answer
	Type I-Basic
1	Correct Option: B
	Total No. of boys = 2140 – 1200 = 940
	Respective ratio = 940 : 1200 = 47 : 60.  Hence, option B is correct.
2	Correct Option: C
2	Let the first number be x and the second number be y
	Then, $48\%$ of $x = 60\%$ of y
	111611, 4070 01 X = 0070 01 y
	x 60% 5
	or, $\frac{x}{y} = \frac{60\%}{48\%} = \frac{5}{4}$
	∴ Regd ratio = 5 : 4.
	Hence, option C is correct.
3	Answer: Option 'D'
	$(2a = 6b \Rightarrow a/b = 6/2)$
	and $(9b = 7c \Rightarrow b/c = 7/9)$
	=> a:b = 6:2 and b:c = 7:9
4	a:b:c = 42:14:18 = 21:7:9
4	Answer: Option 'C' a:b = 5 x 5 : 3 x 5 = 25 : 15 b:c = 5 x 3 : 3 x 4 = 15 : 12
	a.b = 5 x 5 . 5 x 5 = 25 . 15 b.c = 5 x 5 . 5 x 4 = 15 . 12 a:b:c = 25 : 15 : 12
5	Answer: Option 'B'
]	a:b = 1:2, b:c = 3:4, c:d = 2:3
	1:2
	3:4
	$(a = 1 \times 3 = 3, b = 2 \times 3 = 6 \text{ and } c = 2 \times 4 = 8)$
	$(a = a \times b, b = b \times b \text{ and } c = b \times c)$
	a:b:c = 3:6:8
	a:b:c = 3:6:8 and c:d = 2:3
	(Note: First a,b,c multiplication with c means 2 and last c means 8
	multiplication with d means 3
	a:b:c:d = 6:12:16:24
6	Answer: Option 'A' a:b = 5x 10 : 3x 10 = 50 : 30
	b:c = 10x 3: 7x 3 = 30: 21
	a:b:c = 50 : 30 : 21
	a.b.c = 30 . 30 . 21
	a x 5 : b x 5 : c x 5 = 250 : 150 : 105
	Given, c : d = 5:7
	=> c x 21 : d x 21 = 105:147
	a:b:c:d = 250:150:105:147
7	Answer: Option 'B'
	$(x \times 5) = (0.75 \times 8) \times = (6/5) = 1.20$
8	Answer: Option 'B'
	Let the fraction be x. Then,
	x:1/27 = 3/7 : 5/9
	$x \times 5/9 = 1/27 \times 3/7$ $x \times 5/9 = 1/9 \times 1/7$
	$x \times 5/9 = 1/9 \times 1/7$ $x \times 5/9 = 1/63$
	$x \times 5 = 9/63$
	5x = 1/7 = 1/35
9	Answer: Option 'C'
-	Formula = $\sqrt{a \times b}$
	A = 49 and B = 81
<u></u>	$\sqrt{49 \times 81} = 7 \times 9 = 63$
10	Answer: Option 'A'
	Let the fourth proportional to 5, 8, 15 be x.
	Then, 5:8:15:x => 5x = (8 x 15) x (8x 15) / 5 = 24

11	Answer: B) 2:1
	Explanation:
	Compounded Ratio :: When we compound two or more ratio's with each other through product or
	multiplication, the result is simply a compound ratio.
	Thus, the product of two or more ratios; i.e, <b>ab:cd</b> is a ratio compounded of the simple ratios <b>a:c</b> and <b>b:d.</b>
	Required compounded ratio = $(2/3 \times 6/11 \times 11/2) = 2/1$ .
12	Answer: C) 4 : 6 : 3
13	Answer: A) 600
13	
	Explanation:
	1/2:1/3:1/4 = 6:4:3
	As the difference is 3
4.4	=> 3/13x2600 = 600
14	<b>Answer</b> : B) Rs. 204
	Explanation:
	Given ratio = $1/2:2/3:3/4 = 6:8:9$
	1st part = 782 x 6/23 = Rs. 204.
15	<b>Answer:</b> C) 4:3:2
16	<b>Answer:</b> A) 4 : 1
17	Answer: B) 11
18	Correct Option: B
	Sub-duplicate ratio of 16: 25 is 16: 25 i.e. 4:5.
	Hence, option B is correct.
19	Answer: D) 7/12 < 5/8 < 3/4 < 13/16
. •	Explanation:
	5/8 = .625, 7/12 = .5833, 3/4 = .75, 13/16 = .8125
	So order will be
	7/12 < 5/8 < 3/4 < 13/16
20	<b>Answer</b> : B) 2 and 32
20	Type II- Equation Based
	Type ii Equation based
1	<del></del>
1	<b>Answer</b> : A) 2890
1 2	Answer: A) 2890 Correct option: (a)
	Answer: A) 2890  Correct option: (a) Here, A:B:C:D=1/2:1/4:1/5:1/7
	Answer: A) 2890  Correct option: (a)  Here, A: B: C: D = 1/2: 1/4: 1/5: 1/7  1) L.C.M of 2, 4, 5, 7 is 140
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Total (1/49/4-5) 24 x = 144 x = 1420		T + 1/7 0 0 5 0 4 4440
5		Total (7+9+3+5) 24 x=1440==>x=60
Solution:   Let the original number of students be 8x, 9x and 11x   (8x + 15)(9x + 15)=11/12   12(8x+15)=11(9x+15)   96x+180=99x+165   3x=15   x = 5   Required number of students = 8x + 9x + 11x = 28x = 28*5 = 140   Option D   Solution:   Data Inadequate.   Option D   Solution:   Let Guna's and Shekar's present age is 6x and 5x respectively.   then   (6x+12)(7x+12) = 8/9   S4x+108 = 56x + 96   2x = 12   x = 6   Present age of Guna = 6x = 36.   Option C   Solution:   Let the total population be 'p'   Male -Female 7 : 3   Percentage of children among male and female is 25% and 20%   Then Adults male and female w = 75% & 80%   ⇒ 80%(8p/15) = 156800   ⇒ 8 0x 8p/15 x 100 = 156800   ⇒ 9 = 367500   Therefore, the total population of the city = p = 367500.   Answer - D) decreases 21:20   Explanation :   Let initial employees be 7x and then 4x similarly initial wages be 3y and then 5y so total wage = 21xy initially and then 20xy so wages decreases and ratio = 21:20   Answer - Dytion 'A'   Whon there are 8 poople, the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share of each person is 1/7 Increase in the share o		
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3 <b>D) 40</b>		
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	2x, $4x$ , $5x(25/100)*2x + (50/100)*4x + 1*5x = 75x = 10$ , so $50$ p coins = $4x = 40$
4	Answer – C. X = 840; Y = 280
	Explanation :
	Value is given in the ratio 8:4:2.
	(8x/0.25) + (4x/0.5) + (2x/1) = 840. X = 20. Total amount, $Y = 14*20 = 280$
5	Correct option :(c)
	Let the value of one rupee, 50 paise and 25 paise be 11x, 9x, 5x respectively.
	No. of 1 rupee coins = $(11x / 1) = 11x$
	No. of 50 paise coins = $(9x / 0.5) = 18x$
	No. of 25 paise coins = $(5x / 0.25) = 20x$ 11x + 18x + 9x = 342
	38x = 342
	x = 9
	Therefore, no. of 1 rupee coins = 11 x 9 = 99 coins
	No. of 50 paise coins = 18 x 9 = 162 coins No. of 25 paise coins = 20 x 9 = 180 coins
	Type IV – Income and Expenditure
1	Correct option: (a)
	Suppose income of Puja, Hema and Jaya are Rs A, Rs B and Rs C.
	Annual income given is Rs 46, 000
	If 70.0/ income is apont by Duis, then that means also solves 20.0/ (0.2). Similarly, Hamp solves 20.0/ (0.2)
	If 70 % income is spent by Puja, then that means she saves 30 % (0.3). Similarly, Hema saves 20 % (0.2) and Jaya saves 8 % (0.08)
	Given ratio of their annual savings are 15 : 11 : 10
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	<del>`                                   </del>
	$= \frac{A}{10} = \frac{B}{11} = \frac{C}{25} = \frac{(A + B + C)}{(10 + 11 + 25)} = \frac{46000}{46} (Since, A + B + C = 46000)$
	10 11 25 (10 + 11 + 25) 46
	4000
	= 1000
	From this equation, we can
	A = 1000 x 10 = 10,000
	$B = 1000 \times 11 = 11,000$
2	C = 1000 x 25 = 25000 Correct option (d)
	Assume that the daily wages of man, women and daughter are Rs 5x, Rs. 4x, Rs 3x respectively.
	Multiply (no. of days) with (assumed daily wage) of each person to calculate the value of x.
	$[3 \times (5x)] + [2 \times (4x)] + [4 \times (3x)] = 105$
	[15x + 8x + 12x] = 105
	35x = 105 $x = 3$
	Hence, man's daily wage = $5x = 5 \times 3 = Rs$ . 15
	Wife's daily wage = $4x = 4 \times 3 = Rs$ . 12
	Daughter's daily wage = 3x = 3 x 3 = Rs. 9
3	Correct option: (d) Toatal bill paid by Amit, Raju and Ram = (50 + 55 +75) = Rs. 180
	Let amount paid by Amit, Raju and Ram be Rs. 3x, 4x and 5x respectively.
	Therefore, $(3x + 4x + 5x) = 180$
	12x = 180
	x = 15
	Therefore, amount paid by, Amit = Rs. 45
	AHII - 1/3, 40

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Raju = Rs. 60
           Ram = Rs. 75
           But actually as given in the question, Amit pays Rs. 50, Raju pays Rs. 55 and Ram pays Rs. 80. Hence, Amit
           pays Rs. 5 less than the actual amount to be paid. Hence he needs to pay Rs. 5 to Raju settle the amount.
4
           Correct option: (c)
           Assume original salaries of Ram and Sham as 4x and 5x respectively.
           Therefore,
            (4x + 5000)
           (5x + 5000)
                           60
           60 (4x + 5000) = 50 (5x + 5000)
           10 x = 50,000
           5x = 25,000
           Sham's present salary = 5x + 5000 = 25,000 + 5000
           Sham's present salary = Rs. 30,000
           Answer - B.1800
5
           Explanation:
           4x and 5x is the last year salary of rahul and rohit respectively
           Rahul last year to rahul current year = 2/3
           Rohit last year to rohit current year = 3/5
           Current of rahul + current of rohit = 4300
           (3/2)*4x + (5/3)*5x = 4300.
           X = 300.
           So rahul current salary = 3/2 * 4* 300 = 1800
                                          Type V - Solution/Mixture Based
           Answer - b) 25
1
           Explanation:
           (20 + x)/30 = 3/2
           Answer: Option 'B'
2
           milk: water = 7:3
           7x:3x + 20 = 7:5
           5[7x] = 7[3x + 20]
           35x = 21x + 140
           35x - 21x = 140
           14x = 140
           x = 10
           The quantity of milk in the original mixture is = 7 : 3 = 7 + 3 = 10
           10x = 100
           Short cut method:
           milk: water = 7:3
           after adding 20 liters of water
           milk: water = 7:5
           milk is same but water increase 20liters then the water ratio is increase 2 parts
           1 part ---> 10 liters
           The quantity of milk in the original mixture is = 7 : 3 = 7 + 3 = 10
           10 parts ---> 100 liters (Answer is = 100)
           Short cut method - 2: for Only milk problems
           milk: water
           7:3
           7:5
           milk ratio same but water ratio 2 parts incress per 20 liters
           2 part of ratio ---> 20 liters
           1 part of ratio ---> 10 liters
           10 part of ratio ---> 100 liters
3
           Answer - A.11:7
           Explanation:
           milk = 7/9 and water = 2/9 - in 1<sup>st</sup> vessel
           milk = 4/9 and water = 5/9 - in 2<sup>nd</sup> vessel
           (7/9 + 4/9)/(2/9 + 5/9) = 11:7
           Answer - b) 32
4
           Explanation:
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	milk = 4x and water = 3x
	milk = $4x - 14*4/7$ and water = $3x - 14*3/7 + 14$
	4x - 8: 3x + 8 = 3:4
	X = 8, so milk = $8*4 = 32$ litres
5	Answer – b) 56ltr
	Explanation :
	Let $A = 4x$ and $B = 5x$
	Now, A = $4x - 36*4/9$ and B = $5x - 36*5/9 + 36$ Now, ratio between A and B = 2:5
	X = 11.2 now B = 11.2*5 = 56
6	Answer – <b>B.151:269</b>
	Explanation :
	Milk = 1/4 : 2/5 : 3/7
	= 35/140 :56/140 : 60/140
	Quantity of milk in new mix = $35+56+60 = 151$
	Quantity of water in new mix = $140*3 = 420-151 = 269$
	M:W = 151:269
	Type VI – Miscellaneous
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1	Answer – <b>B.16:5</b>
	Explanation :
	6 step fox=3 step horse = 2:1
	16 step fox=8step horse=5 step fox
	16 step fox=5 step fox
	16:5
2	Answer – B) 2:9
	Explanation:
	2+9 = 11
	66 can divisible by 11.
3	Correct Option: B
	Let the children be P, Q, R and S and Father be F
	Chocolates with P: Q: R= 3:7:11
	Let the number of chocolates be 3k, 7k and 11k
	Total chocolates with three eldest children = 21k
	Chocolate with F and S = $3 \times 21k = 63k$
	Total chocolates = (21k + 63k) = 84k
	Chocolate with $F: (P+Q+R+S) = 3:4$
	Total 7 units of chocolate = 84 k
	1 unit = 12k
	Chocolate with $F = 3 \times 12k = 36k$
	Chocolate with $S = (63k - 36k) = 27k$
	$27 \text{ k} = 81 \rightarrow \text{k}=3$
	Total number of chocolates = $84k = 84 \times 3 = 252$
	Hence, option B is correct.
4	Option D
1	Solution:
	Let the number of failed students be x
	Number of passed students = 4x
	So total number of students was 5x
	From the given data
	If total number of students be 5x – 35
	(5x-35)/x+9=3/1
	x = 31
	Total number = 31x5 = 155