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| 1. | **Ans: []**  **Solution: (4725\*100\*100/(100-10)(100-85)=350 m**  **Or**  Let it be 100 m  10% loss = 90 m  =350 |
| 2. | **Ans: []**  **Solution: let the total quantity be x**  **90%of x=31.5**  **X=(31.5\*100)/90=35** |
| 3. | **Ans: []**  **Solution: let the total empoloyees be p**  **No of men earning more than 50000=50%\*60%\*p**  **Total women earning more than 50000**  **45%p=50%\*60%\*p+w**  **W=0.15p**  **No of women earning less than 50000=0.40p-0.15p=0.25p**  **% value=(0.25/0.40)\*100=62.5%** |
| 4 | **Ans: []**  **Solution: let the income be x**  **Expenditure=0.66x**  **New income=x+800**  **Expenditure=50%(x+800)**  **0.66x=0.50x+0.50\*800**  **X=2500** |
| 5 | **Ans: []**  **Solution: overall gain during 1st week**  **24\*7\*2/100=3.36hrs**  **Overall loss during next 10 days**  **24\*10\*3/100= -7.20hrs**  **To calculate over all loss**  **7:12:00**  **3:21:36**  **Subtracting two values**  **We get overall loss of 3hrs 50 mins and 24 sec**  8:09:36 |
| 6 | **Ans: []**  **Solution: {lb-0.25lb)\*100/lb=75%** |
| 7 | **Ans: []**  **Solution: 100\*100/(100+10)=11.11%** |
| 8 | **Ans: []**  **Solution:** Let the weight of empty bucket = X Kg  Weight of liquid filled initially = Y kg  weight of an empty bucket is 25% of the weight of the bucket when filled with some liquid  => X = 25% of (X+Y)  => X = 0.25(X+Y)  => X – 0.25X = 0.25Y => 0.75X = 0.25Y => 3X = Y  Now some liquid is removed, the bucket, along with the remaining liquid =3/5(X+Y)  Hence , the weight of the liquid withdrawn = 2/5(X+Y)=8Y/15  So , the fractional part of the liquid removed = 1-3/5 = 2/5 |
| 9 | **Ans: []**  **Solution: Amount left={4131\*100\*100\*100}/90\*90\*85=6000** |
| 10 | **Ans: []**  **Solution: let total fruits be x**  **Remaining fruits=0.80x**  **ATQ**  **0.25\*0.80X+30\*12=0.80X**  **X=600**  **Fruits at cold storage=0.25\*0.80\*600=120** |
| 11 | **Ans: []**  **Solution: A=X**  **B=X/2**  **C=C**  **D=40%125%X=0.5X**  **E=125X/100=1.25X**  **Both B &D** |
| 12 | **Ans: []**  **Solution: Let the max marks be x**  **30%x+20=40%x-20**  **0.30x+20=0.40x-20**  **X=400** |
| 13 | **Ans: []**  **Solution:** |
| 14 | **Ans: []**  **Solution:** |
| 15 | **Ans: []**  **Solution: weight of flesh in fresh and dried grapes shall remain constant**  **The weight of water content changes**  **Let the total weight of dried grapes be x**  **So**  **2+20%x=x**  **X=2.5** |
| 16 | **Ans: 20**  **Solution:** Let the person has x Rs , then price of 50 oranges or 40 mangoes is x Rs.  Therefore, from given information x = (x / 10) + (x / 2) + Amount left.  Hence, the amount left to buy oranges is (2x / 5) , since price of 50 oranges or 40 mangoes is x Rs , hence price of 1 orange, 1 mango is (x / 50), (x / 40) respectively.  Hence, he can buy (2 /5) x 50 = 20 oranges. |
| 17 | **Ans: 600**  **Solution:** Suppose total no. of votes is x and Candidate with 62% votes be m and Candidate with remaining 38% votes be n.  Given that,  m-n = 144 => .62x - .38x = 144 (putting values of m and n) => x = 144/.24 => x = 600 |
| 18 | **Ans:105**  **Solution:** The 35 litres occupies (100-75)% of the tank. -------------------------- Proportion: Let x litres be the capacity of the tank n/(100-75)% = x/100% -------- x = 35/(100-75)% ------------ The tank already has 35 litres in it. You need [35/(100-75)%]-n = [100X35/(100-75)]-n   = (35 X 75)/(100-75) litres to fill the tank = 105 ltr |
| 19 | **Ans: 40**  **Let n be numenator and d be denominator**  **Solution: n%2Fd - %28.75n%29%2F%281.25d%29 = %281.25dn+-+.75dn%29%2F%281.25d%5E2%29 = %28.5dn%29%2F%281.25d%5E2%29 = %28.5n%29%2F%281.25d%29 = n%2F%282.5d%29 = .4(n%2Fd) a 40% decrease** |
| 20 | **Ans: 400**  **Solution: let x be the amount he had**  **x-x/3-4x/15-x/5 = 300**  **3x/15=300**  **X= 1500**  **Amount spend on food = 4x/15**  **400** |
| 21 | **Ans: 82**  **Solution:** Let the square have sides of 10 cm. Hence its area is 10x10 = 100 sq cm. The sides of the rectangle are 14 cm (40% more than 10 cm)and 13 cm (30% more than 10 cm), so its area = 14x13 = 182 sq cm.  So the increase in area of the rectangle over that of the square is (182–100)/100 = 82/100 or 82 %. |
| 22 | **Ans: 4**  **Solution:** Here we can assume that one subject is of 100 marks so total there are 5 subjects => 100\*5 = 500. Now according to the question he secured 60 % of those which is 60%of 500 = 300 marks in total.  The ratio between the marks is given as 6 : 7 : 8 : 9 : 10 , so now we can distribute 300 marks according to the ratio.  Total ratio = 40  For 6 : (300/40)\*6 = 45 Similarly , we will get for others as 52.5 , 60 , 62.5 , 75.  Hence , there are 4 subject where he secured more that 50 %.  The answer is 4. |
| 23 | Ans: 40  Solution Since 15% of the original 20 liters is NON-gasoline, the amount of non-gasoline = .15(20) = 30 liters.   After pure gasoline is added to increase the gasoline percentage to 95%, these 30 liters 5% of the new total:  30 = .05t  t = 30/.05 =60  Since the new total = 60 liters, the amount 20 liters = 60-20 = 150 liters. |
| 24 | **Ans:** |
| 25 | **Ans: 31**  **Solution:** Let the third number be 100. Then,  1st number = 140 2nd number = 160 % 1st to the 2nd number = (20/160)\*100 = 12.5 |
| 26 | **Ans: 20**  **Solution: 330-275 =55**  **55/275 X100 = 20** |
| 27 | **Ans: 10000**  **Solution:** let total be x  x-x/5-2x/5-18x/125 = 5760  72x/125= 5760  X=10000 |
| 28 | **Ans: 20%**  **Solution:4/20x100** |
| 29 | **Ans:** |
| 30 | **Ans: 30**  **Solution:** 52+18 =70  100-70 = 30  30/100 X 100 = 3-% |
| 32 | **Ans: c**  **Solution: the population will be 100000 x 102/100 x 103/100 x 105/100 = 110313** |
| 33 | **Ans: b**  **Solution: As per question : 7 % = 84 marks**  **So 100 % = 84/7 x 100 = 1200** |
| 34 | **Ans: b**  **Solution: Total marks obtained = 450 x 54/100 = 243**  **And in B = 150 x 56/100 = 84**  **So in C = 243 – 73 – 84 = 86** |
| 35 | **Ans: d**  **Solution: passed students = 800 x 75/100 + 600 x 80/100 = 1080**  **So failed % = 1400 – 1080/1400 x 100=22.86%** |
| 36 | **Ans:**  **Solution: Let c`s salary be 100, so b`s is 25 and a`s is 10**  **So its 10 % of C`s salary** |
| 37 | **Ans: d**  **Solution:** Let the number of people be x who has been asked for the donations. People already solicited = 60% of x = 0.6x Remaining people = 40% of x = 0.4x Amount collected from the people solicited, = 600 \*0.6x = 360x 360x = 75% of the amount collected.  Remaining amount = 25% = 120x Thus, Average donations from remaining people,= 120x /0.4x = 300. |