1.	**Ans: []** **Solution: (4725*100*100/(100-10)(100-85)=350 m** **Or** Let it be 100 m 10% loss = 90 m $90 \times \frac{15}{100} = \frac{27}{2} m$ $\frac{27}{2} \rightarrow 100m$ $\frac{189}{4} \rightarrow \frac{100 \times 89}{4 \times 27} \times 2 = 350$
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= Y Now some liquid is removed, the bucket, along with the remaining liquid =3/5(X+Y) Hence , the weight of the liquid withdrawn = 2/5(X+Y)=8Y/15 So , the fractional part of the liquid removed = 1-3/5 = 2/5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:** $\frac{n}{d}$ **-**

	$\frac{.75n}{1.25d} = \frac{1.25dn - .75dn}{1.25d^2} = \frac{.5dn}{1.25d^2} = \frac{.5n}{1.25d} = \frac{n}{2.5d} = .4\left(\frac{n}{d}\right)$ **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.