Q1: In an examination, 35% of the students passed and 455 failed. How many students appeared for the examination? (Wipro)
a. 490
b. 700
c. 845
d. 1300
Ans: b
Soln: 65% of total students = 455
So, total students = 700

Q2: Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get? (TCS)
a. 57%
b. 60%
c. 65%
d. 90%
Ans: a
Soln: [11628/(1136 +7636 + 11628)] x 100 = 57%

Q3: If the price of petrol is increased by 30%, by how much % a car owner must reduce his consumption in order to maintain the same budget? (TCS)
a. 21%
b. 21
c. 23
d. 33%
Ans: c
Soln: Reduction in petrol = [30/130] x 100 = 23%

Q4. The price of 15 chairs is 20% more than the price of 8 tables. If the price of 2 tables is Rs. 2400, then what is the price of 15 chairs? (Wipro)
1) Rs. 10,320
2) Rs. 12,380
3) Rs. 11,520
4) Rs. 10,780
Ans: 3
Sol: Price of 15 chairs = 120% of price of 8 tables

Q5. Find the single equivalent discount of 10% and 20%. (Capegemini)
1) 26%
2) 28%
3) 30%
4) 32%
Ans: 2
Sol: Sigle discount% = 10 + 20 - 10 x 20/100 = 28%

Q6. A shopkeeper sells a book at a loss of 40%. Had he sold the book for Rs. 120 more, then he would have suffered a loss of 10%. To earn a profit of 10%, what should be the selling price of the book? (Capegemini)
1) Rs. 400
2) Rs. 440
3) Rs. 500
4) Rs. 650
Ans: 2
Solution: 30% of CP = 120
So, CP = 400
Selling price to gain 10% = 440

Q7. If p : q = 3 : 5 and p : r = 2 : 3, then what is the value of 3p : 4q : 3r?
1) 12 : 8 : 9
2) 18 : 40 : 27
3) 10 : 5 : 4
4) 9 : 5 : 4
Ans: 2
Sol: By equalising p and getting the ratio of p : q : r and then putting values to get the solution.

Q8. Two numbers are in the ratio 9 : 16. If both numbers are increased by 40, then their ratio becomes 2 : 3. What is the difference between the two numbers? (Capegemini)
1) 64
2) 60
3) 48
4) 56
Ans: 4
Sol: Hint: (9x+ 40):(16x+40) = 2:3

Q9. A fort has provisions for 60 days. If after 15 days 500 men strengthen them and the food lasts 40 days longer, how many men are there in the fort? (Wipro)
(1) 3500
(2) 4000
(3) 6000
(4) None of these
Correct Answer - (2)
Solution:
Let there be 'x' men in the beginning so that after 15 days the food for them is left for 45 days.
After adding 500 men the food lasts for only 40 days.
Now (x+500) men can have the same food for 40 days.
Therefore by equating the amount of food we get,
45 * x = (x + 500) * 40
x = 4,000
Therefore there are 4,000 men in the fort.

Q10. What should be added to each of the numbers 19, 26, 37, 50 so that the resulting number should be in proportion? (TCS)
(1) 2
(2) 3
(3) – 2
(4) – 5
Ans: 1
Sol. Let the required number be x.
According to question,
19 + x, 26 + x, 37 + x and 50 + x are in proportion
(19 + x) : (26 + x) = (37 + x) : (50 + x)
$\Rightarrow x = 2$

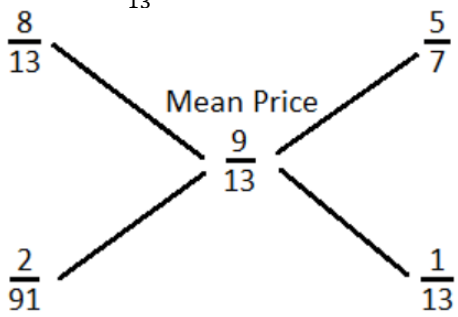
Q11. A sum of Rs. 3000 is invested in a scheme of simple interest. The rate of interest in this scheme is 10 percent per annum. If Rs. 1200 interest is obtained, then for how many months is the sum invested? (Wipro)
1) 30 months
2) 36 months
3) 40 months
4) 48 months
Ans: 4
SI = PRT/100
1200 = (3000x10xT)/100
T = 4 years = 48 months

Q12. What amount a man would have received on a principal of Rs. 7,500 after two years at simple interest at the rate of 7 percent per annum? (Tech Mahindra)
1) Rs. 8,400
2) Rs. 8,550
3) Rs. 7,600
4) Rs. 7,400
Ans: 2
SI = PRT/100

Q13. A sum of Rs. 725 is lent in the beginning of a year at a certain rate of interest. After 8 months, a sum of Rs. 362.50 more is lent but at the rate twice the former. At the end of the year, Rs. 33.50 is earned as interest from both the loans. What was the original rate of interest? (Wipro)
A. 3.46%
B. 4.5%
C. 5%
D. 6% E. None of these
Ans: A
Let the original rate be R%. Then, new rate = (2R)%.
Note:
Here, original rate is for 1 year(s); the new rate is for only 4 months i.e. 1/3 year(s).
Now, use SI = PRT/100 to get the value of R.

Q14. Two vessels A and B contain milk and water mixed in the ratio 8:5 and 5:2 respectively. The ratio in which these two mixtures be mixed to get a new mixture containing $69\frac{3}{13}$ % milk is ? (Tech Mahindra)

A. 2:7
B. 3:5
C. 5:2
D. 5:7
Ans: A
Sol: Proportion of milk in vessel A = 8/13
Proportion of milk in vessel B = 5/7
Mean value = $69\frac{3}{13}$ % = 9/13



Required ratio = $\frac{2}{91} : \frac{1}{13}$ = 2 : 7

Q15. Find the value of T+E+N. (Infosys)

```
   ONE
+  ONE
+  ONE
+  ONE
-------
   TEN
```

A) 17
B) 18
C) 19
D) None of these

Answer – A
Hint – use hit and trail method and crypt concept