**Mahindra Satyam Placement Paper: Numerical and MathematicalAbilities**

**1 If Thursday was the day after the day before yesterday five days ago, what is the least number of days ago when Sunday was three days before the day after tomorrow?**

1. Two days ago
2. Three days ago
3. Four days ago
4. Five days ago
5. None of these

**Q.2 A train started from station 'A' and proceeded towards station 'B' at a speed of 48 Km/hr. Forty-five minutes later another train started from station 'B' and proceeded towards station 'A' at 50 Km/hr. If the distance between the two stations is 232 Km, at what distance from station 'A' will the trains meet?**

1. 132 Km
2. 144 Km
3. 108 Km
4. 160 Km
5. None of these

**Q.3 At what time between 4 and 5 o'clock the hands are in opposite direction?**

1. 10 2/11 minutes past 4 o'clock
2. 3 2/11 minutes past 4 o'clock
3. 3 5/11 minutes past 4 o'clock
4. 10 10/11 minutes past 4 o'clock

**Q.4 How many 7s are there in the following series which are not immediately following by 3 but immediately preceded by 8?  
8 9 8 7 6 2 2 6 3 2 6 9 7 3 2 8 7 2 7 7 8 7 3 7 7 9 4**

1. Nil
2. One
3. Two
4. Three
5. More than three

**Q.5 How many members are there between 1 to 100 which are divisible by 9 and the sum of two digits is 9?**

1. 1 3
2. 11
3. 7
4. 9
5. 10

**Q.6 How many 8's are there in the given sequence which are not immediately preceded by 09 and not immediately followed by 90?  
9 0 8 0 9 0 9 8 9 0 8 9 0 8 0 9 8 9 0 9 8 0 9 8 9 0 8 9 0**

1. 1
2. 2
3. 3
4. More than 3
5. None of these

**Q.7 A and B invested money together in a business and share of capital of A is 1/4th that of B. If they incurr a loss of Rs.500 then loss for B is**

1. Rs.200
2. Rs.300
3. Rs.400
4. Rs.100

**Q.8 How should a profit of Rs.500 be divided into two partners, if one of them invested Rs.6000 for 5 months and other invested Rs.5000 for 4 months? (in Rs.)**

1. 1000,5000
2. 3000,2000
3. 500,400
4. 2000,3000

**Q.9 If the compound interest (compounded Yearly) on a certain sum for 2 years at 3% is Rs.101.50 then what will be the corresponding simple interest?**

1. Rs.90.00
2. Rs.95.50
3. Rs.100.00
4. Rs.98.25

**Q.10 In what ratio mental A at Rs.68 per kg be mixed with another metal at Rs.96 per kg so that cost of alloy (mixture) is Rs.78 per kg?**

1. 5:8
2. 4:7
3. 3:7
4. 9:5

**Q.11 In a race of 4Kms A beats B by 100m or 25 seconds, then time taken by A is**

1. 15 min 8 sec
2. 16 min 15 sec.
3. 8 min 15 sec.
4. 10 min 17 sec.

**Q.12 In a game of 100 points there are three participants A, B, and C. A gives to B 10 points and to C 19 points, then how many points can B give to C**

1. 11 points
2. 8 points
3. 9 points
4. 10 points

**Q.13 In game of 500 points there are three participants A, B, and C. A game take place. A gives to B 80 points and to C 101 points. Then how many points can B give to C**

1. 375
2. 500
3. 475
4. 425

**Q.14 The age of Ritu's mother is 6 times that of Ritu's age. After 6 years it will be 3 times that of Ritu's age. what is Ritu's present age?**

1. 4 years
2. 6 years
3. 8 years
4. 10 years

**Q.15 Ten years ago A was half of B's Age. If ratio of their present ages is 3:4 then what is the total of their persent ages?**

1. 08 years
2. 20 years
3. 30 years

 35 years