Quantitative Aptitude

1) A father decided to give his retirement amount Rs. 7,40,000 to his sons A, B , C in the proportion 1/3 : 2/ 5 : 3/6. Then what is the average amount of first two sons got from their father?

A. 2,20,000

B. 1,13,000

C. 3,40,000

D. 3,20,000

E. 50000

2) A sum of money is to be distributed among P, Q, R and S in the proportion 3: 4: 6: 1. If R gets Rs.4000 more than Q, what is P's share?

A. Rs.1000

B. Rs.2000

C. Rs.4000

D. Rs.6000

E. None of these

3) Ratio of the total population of cities L and M is 6:5 and the ratio of the literate population of cities L and M is 5:4. If the illiterate population of city L is $8/15^{th}$ of the total illiterate population of cities L and M together is 75, then find the total population of city L?

a) 84

b) 72

c) 66

d) 90

e) None of these

4) Ratio of the number of employees in TCS, CTS and HCL is 9:7:10. The sum of the employees of TCS and CTS is 1600 less than the double of the number of employees in HCL. What is the difference between the number of employees in TCS and HCL?

A.200

B.400

C.500

D.300

E.600

5) If Rs.36300 were divided among Mala, Kala and Bala so that the ratio of Mala and Kala is 5:4 and the ratio of Kala and Bala is 9:10, then what amount will Bala get?

A.Rs.12000

B.Rs.15000

C.Rs.18000

D.Rs.20000

E. None of these

6) An amount of Rs.2430 was divided between A, B and C. If each of them had received Rs.100 less, their shares would have been in the ratio of 3: 4: 5. Find the money received by C.

A.Rs.850

B.Rs.950

C.Rs.987.5

D.Rs.876.6

E. None of these

7) Vishnu distributes Rs.36000 amount to his three daughters Anu, Bharathi and Chitra in the

ratio of 3: 4: 5. Bharathi shared her amount with her husband David. If Bharathi gives 60% of amount to her husband, then what is the average amount of Anu and David?

A.Rs.8800

B.Rs.8500

C.Rs.8300

D.Rs.8100

E.Rs.8000

8) The ratio of the number of male population in villages A and B is 10:9 and the ratio of the number of male to female population in A is 4:5. If the number of female population in B is 1100 more than the number of female population in A and the difference between the number of male population in A and B is 200, then find the number of female population in B?

A.3200

B.3600

C.3400

D.3500

E.3300

9) Total number of students in the class is 40 and the ratio of the number of boys to girls in the class is 3:2. Each of them likes Maths or Physics. 25% of the girls like Maths and 30% of total students like Maths in the class. Find the number of boys like Maths?

A.12

B.15

C.10

D.6

E. None of these

10) If the ratio of the number of balls from box A and B is 3: 2 and the ratio of the number of red balls from A and B is 4: 5. If the boxes have two different color balls red and yellow and the difference between the number of balls from A and B is 10, then what is the ratio of the number of yellow balls from A to B?

A.3:4

B.3:2

C.4:3

D. Cannot be determined

E. None of these

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Answer Key with Explanation

1) Answer: A

Given proportion = 1/3 : 2/5 : 3 /6 = 10 : 12 : 15

A 's share = (10/ 37) x 7,40,000 = Rs. 2,00,000

B' s share = (12 / 37) x 7, 40 , 000 = Rs. 2, 40, 000

Hence average = (200000 + 240000)/ 2 = Rs. 2, 20 , 000.

2) Answer: D

R gets Rs.4000 more than Q which is equal to 2 units.

1 unit = 2000

P's share = 3 units = 3 * 2000 = Rs.6000

3) Answer: D

The total population of city L = 6x

The total population of city M = 5x

The literate population of city L = 5y

The literate population of city M = 4y

The illiterate population of city L = 75 * 8/15 = 40

The illiterate population of city M = 75 – 40 = 35

6x – 5y = 40 --- (1)

5x – 4y = 35 --- (2)

(2) * 5 – (1) * 4

25x – 20y = 175

-24x + 20y = 160

x = 15

The total population of city L = 6 * 15 = 90

4) Answer: B

2 * 10x - (9x + 7x) = 1600

20x – 16x = 1600

x = 400

Required difference = 400 * (10 – 9) = 400 * 1 = 400

5) Answer: A

Mala, Kala and Bala = (5 * 9): (4 * 9):(10 * 4)

= 45:36:40

Bala's Share = 40/121 * 36300

= 12000

6) Answer: C

3x + 100 + 4x + 100 + 5x + 100 = 2430

=> x = Rs.177.5

Money received by C = 5x + 100 = Rs.987.5

7) Answer: D

Anu = 3/12 * 36000 = 9000

Bharathi = 4/12 * 36000 = 12000

Chitra = 5/12 * 36000 = 15000

David = 60/100 * 12000 = 7200

Average = (9000 + 7200)/2 = Rs.8100

8) Answer: B

Number of male population in A = 10/1 * 200 = 2000

Number of female population in A = 5/4 * 2000 = 2500

Number of female population in B = 2500 + 1100 = 3600

9) Answer: E

Number of girls = 2/5 * 40 = 16

Number of students like Maths = 30/100 * 40 = 12

Number of girls like Maths = 25/100 * 16 = 4

Number of boys like Maths = 12 – 4 = 8

10) Answer: D

3x – 2x = 10

x = 10

Number of balls from A = 3 * 10 = 30

Number of balls from B = 2 * 10 = 20

We cannot find the answer.