1. Three men are as different as 4 women who are as efficient as 6 machines. The number of men, women and machines are in the ratio 4:5:6 and they have completed a job. They are paid a total of Rs.4300 for it. Find the total share of women (in Rs)

a) 1800Rs b) 1600Rs c) 1500Rs d) 1000Rs

1. The poles on the road are 40m apart. How many poles will be passed by the car in 2hr 15mins if the speed of the car is 72kmph

a) 4150 b) 450 c) 4050 d) 4250

1. Thief is spotted by policeman from a distance of 120m.when the policeman start the chase, the thief also running. If the speed of the thief be 8km/hr and that policeman is 12km/hr, how far the thief will have run before he is overtaken

a) 300m b) 280m c) 240m d) 243.3m

1. In what ratio should 2 varieties of rice costing Rs.20/kg and Rs 24/kg be mixed so that when sold at Rs.27.60 kg a profit of 20% is made?

a) 1:2 b) 2:3 c) 1:3 d) 3:1

1. Two watches were sold at Rs.850 each. On one a the again of 15% is made and on the other a loss of 15%. How much % loss or % gain made in the whole transaction?

a) 2.25% loss b) 2.25% gain c)8% loss d)8% gain

1. A person sells 36 oranges per rupee and suffers a loss of 4%. Find how many oranges per rupee is to be sold to have gain of 8%

a) 28 b) 32 c) 62 d) 50

1. If the population of town is decrease by 10% and 20% in 2 successive years. What is the net % increase or decrease in the population? a) 26% increase b) 32% decrease c) 30% increase d) 28% decrease
2. In a certain code language, if the number 1 is assigned to all the letters in odd numbered places in the alphabet and the remaining letters are assigned the number 2, then what is the code for the word ‘INDIAN’?

a) 121212 b) 111222 c)112212 d)121221 e)122112

1. In a certain code language if CRICKET is coded as 3923564, ROCKET is coded as 913564 and KETTLE is coded as 564406, then how is LITTLE coded in that language?

a) 244060 b) 024406 c) 020446 d)200446 e)246400

1. In a certain code if white is called as black, black as yellow, yellow as blue , blue as red, red as green, green as purple, then what is the color of blood in that language?a)Red b)Green c)Yellow d) Purplee e)Black
2. BCD: 234 :: \_\_\_\_\_\_\_ : 678 a) CDE b) EFG c)GHF d)FGH e)EDC
3. H : S :: C \_\_\_\_\_ a) P b) Q c) T d) R e)X
4. Seven friends are dressed in seven different colors of caps and ties during their gathering at a party. The colors of the ties were white, grey, yellow, violet, brown, orange and pink and the colors of the caps were blue, black, yellow, green, brown, red and white, though not respectively. No one wore the same color of cap and tie. A wore black cap but not orange or pink tie. B wore grey tie. D wore tie of the same color as C’s cap. Similarly the color of the cap worn by E was the same as the color of the tie worn by F. Neither the cap nor the tie worn by C was brown. G wore violet tie and white cap
5. Which of the following pair of persons wore the same color of the tie and cap respectively?

a) A,G b)E,F c) C,D d)C,F

1. Who wore brown tie? a)D b)E c)F d)data inadequate e)None
2. Which of the following person cap tie combination may be true?
3. a)B-yellow-Grey b) F-Blue-Brown c)D-Brown-Yellow d) A-Black-Orange e)None
4. What was the color of cap worn by F?a)Blue b)Red c)Green d)Datainadequate e)None
5. If B wore green cap, what was the color of the cap worn by F?
6. a) Blue b) Red c) Either Blur or Red d) Data inadequate e) None
7. (X\*Y) means X is the brother of Y;;(X+Y) means X is the daughter of Y.;;(X-Y) means X is the husband of Y.
8. If(A+B-C),then a)C is the mother of A b)C is sister in law of A c)C is aunt of A d)C is mother in law of A
9. If(A\*B+C),then a)A is the brother of C b)A is the uncle of C c)A is son of C d)A is father of C
10. If (A+B\*C),a)A is the niece of C b)A is the daughter of C c)A is the cousin of C d)A is the daughter-in law C
11. P×Q --P is the sister of Q;P+Q means P is the father of Q;P-Q means P is the mother of Q.
12. Which of the following mean S is the aunt of T?a)T×M+S b)S+T×M c)S×M+T d)S×M+R-T
13. I have 20 rupees. I bought 1, 2, 5 rupee stamps. They are different in numbers by the reason of no change, the shop keeper gives 3 one rupee stamps. So how many stamp(s) I have.  
    a) 10 b) 12 c)15 d)7
14. An Engine length 1000 m moving at 10 m/s. A bird is flying from engine to end with x kmph and coming back at 2x. Take total time of bird travelling is 187.5 s. Find x and 2x

a)6 and 18 m/sec b) 6 and 12 m/sec c) 9 and 18 m/sec d) none of these

1. Which polygon has no. of sides = diagonal a)Pentagon b) hexagon c) octagon d) none of these
2. One Cigar can be made from 7 bits of burnt cigar. If each cigar produces 1 bit and if there are 16 Cigars

then how many bits will be remaining in the end? a) 4 b)5 c) 6 d) none of these

1. A, B, C, D went to a hotel and planned to share the bill of 480 rs equally. But afterwards they changed their plan and to pay proportional to consumption. A paid 240, B & C paid equally, D paid only half the amount that he should have paid based on the first plan. What is the amount paid by B?

A) 60 b) 90 c)120 d) none of these

1. Juice contains water and orange pulp in the ratio of 3:1. For making 12L juice, how much orange pulp will be required a)3 b)4 C)9 d) none of these
2. There are 80 balls and one of them is defective and has a lesser weight. You are given a balance. What is the minimum number of weighing required to identify the defective ball a)4 b)5 c)6 d)7
3. Find the percentage of prime numbers present between 1and 100 (including both).  
   A)20  B)25  C)24  D)23
4. Tom is 25 % taller than Amy. By what % is Amy shorter than Tom?A)75%  B)80%  C)25%   D)20%
5. A shopkeeper offered a discount of 15% on the labeled price. By selling an article for Rs. 340, after giving discount, he earned a profit of 13 1/3%. What would have been the percent profit earned if no discountwasoffered?A)0.2  B)0.3333  C)0.1717  D)0.25
6. If a:b=3:4 and b:c=2:7, then what is the value of a:b:c?A) 3:4:14 B) 3:4:7 C) 6:4:7 D) 6:8:12
7. The prices of a refrigerator and a cell phone are in the ratio 3:2. If the refrigerator costs Rs. 6000 more than the cell phone, what is the price of the cell phone?

A) Rs. 1200 B) Rs. 12000 C) Rs. 8000 D) Rs. 9000

1. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in:
2. A bus starts running with the initial speed of 40km/hr with its speed increasing every hour by 5kmph.How many hours will it take to cover a distance of 385km?A. 10hrs B. 12hrs C. 8 hrs D. 7hrs
3. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years?  
   A. 12 B. 24C. 36 D. Can't be determined
4. If ax=by then a. Log a/b =x/y b. Log a/ log b =x/y c. Log a / log b = y/x d. Log b/a = x/y
5. The interest on a certain deposit at 4.5% p.a. is Rs 405 in one year. How much will the additional interest in one year be on the same deposit at 5% p.a.a) 50 rs b) 40.5 rs c) 45 rs d) 48.5 rs
6. The difference between SI and CI on rs 1200 for one year at 10 % per annum reckoned half yearly

a) 2.50 rs b) 3 rs c) 3.75 rs d) 4 rs

1. After the typist writes 40 letters and addresses 40 envelopes, she inserts the letters randomly into the envelopes (1 letter per envelope). What is the probability that exactly 1 letter is inserted in an improper envelope? a)1 b)1/2 c) 1/39 d)0
2. A milkman buys some milk. If he sells it at Rs 5 per litre, he loses Rs 200. But when he sells it at Rs 6 per litre, he gains Rs 150. How much milk did he purchase?

1) 50 litres 2) 31 litres 3) 350 litres 4) 200 litres 5) None of these

1. 24)if 5 tomatoes are worth 8 oranges,5 oranges are worth 4 apples, 7 apples are worth 3 pineapples and 7 pineapples cost rs.203,then the approx price of each tomato is a.16    b.5   c.19   d. none
2. 25) Y catches 5 times more fishes than X. If total number of fishes caught by X and Y is 48, then number of fishes caught by X?a.48 b)6 c)8 d)none of these
3. There is a point P on the circle. A and B started running in two constant different speeds. A in Clockwise and B in Anti-clockwise. A meet B First time 500 m in Clockwise from P then second time 400 m Anti-clockwise from P. B is yet to complete one round, What is the circumference of the circle? a)500 b)700 c) 600 d) none of these
4. The SI on a sum of Rs.12,000 at a rate of 15% p.a is Rs.5,400.determine the time for which the sum is borrowed, a.2 years   b.3 years c.1.5 years  d.2.5 years
5. if x=12 , y=4, then find the values of (x+y)x/y a.  8009      b.4096  c.none  d.1024
6. A sum of Rs.5000 was divided among P, Q and R in the ratio of 2:3:5. If the amount of Rs 500 was added to each, what will be their new ratio?a) 3:4:6          b) 3:5:4        c) 3:4:5      d) 2:3:4
7. There are two vessels which are filled with milk of two qualities worth Rs10 per liter and Rs 11 per liter. In what approximate ratio, these two be mixed to get a new quality of milk of worth Rs 10.67 per liter? a) 1:3    b) 1:2       c) 2:3     d) 2:1
8. Determine the speed of a train of length 240 meters if it crosses a pole in 15 seconds.

a) 44.4 kmph    b) 57.6 kmph   c) 33.3 kmph    d) 22.2 kmph

1. . A sum of money at CI amounts to thrice itself in three years. In how many years will it be 9 times itself?: a) 6years     b) 2 years    c)5 years    d) 3 years
2. x,y,z rent an area for Rs.10,000 per annum.X puts 312 horses in the area for 4 months,y puts 124 horses in the area for 2 months and puts 520 horses for 6 months.what % of the total question should y pay?a.27.03%    b.67.59%    c.5.37%  d.16.7%
3. .At what rate percent  CI  does a sum of money become nine fold in 2 years?

a.100% p.a      b.300% p.a    c.400% p.a   d.200% p.a

1. .Anirudh,Harish and Sahil invested a total of Rs.1,35,000 in the ratio 5:6:4 Anirudh invested has capital for 8 months. Harish invested for 6 months and Sahil invested for 4 months. If they earn a profit of Rs.75,900,then what is the share of Sahil in the profit?

A. Rs.12,400   B. Rs.14,700   C. Rs.15,800  D. Rs.13,200

1. Two trains are travelling in opposite directions at uniforms speeds of 60 kmph and 50 kmph.They take 5 seconds to cross each other.If the two trains travelled in the same directions.then a passenger sitting in the faster moving train would have overtaken the other than in 18 seconds.what are the lengths of the trains?

A. 87.78 m and 55 m     B.112 m and 78 m      C.102.78 m and 50 m     D.102.78 m and 55 m

1. Two numbers are in the ratio x:y,when 2 is added to both the numbers.the ratio becomes 1:2.when 3 is subtracted from both the numbers. The ratio becomes 1:3.Find the sum of x and y.        A. 27     B. 24     C. 28    D. 26
2. To earn extra profit,a shopkeeper mixes 30 kg of dal purchased at Rs.36/kg and 26 kg of dal purchased at Rs.20/kg.What will be the profit that he will make if he sells the mixture at Rs.30/kg?A. Rs.60   B. Rs.80   C. Rs.50   D. Rs.100
3. A sum was put at simple interest at certain rate for 3 years. Had it been put at 1% higher rate it would have fetched Rs. 63 more. The sum: A. Rs. 2,400       B. Rs. 2,100        C. Rs.  2,200       D.Rs. 2,480
4. 28 children can do a piece of work in 50 days.how many children are needed to complete the work in 30 days? A.  49    B.  40    C.  35    D.   45
5. A certain sum of money becomes Rs.750 in 2 years and becomes Rs.873 in 3.5 years.Find the sum and rate.  A.Rs.400, 13%    B.Rs.500,11% C. Rs.630,12%    D.Rs.600,13%p.a
6. Two trains of length 180 m and 220 m are running in opposite directions, the first one at the rate of 50 kmph and while second one at       . Calculate the time they will require to pass each other.

a.20 seconds   b.16 seconds   c.18 seconds   d.17 seconds

1. 30 men can do a work in 30 days and 40 women can do the same work in 40 days. If they started working together, how many more men required completing the work in 10 days?

 a. 42   b. 28   c. 25   d. 38

1. If the simple interest is 7% annual and compound interest is 6% annual, find the difference between the interests after 4 years on a sum of Rs 2000. a. 33.05    b. 32.5    c.  37.5    d. 35.05
2. 132 ml of a drink contains vodka and water in 27:6. How much more water is to be added to get a new mixture a. 24 ml  b. 54 ml    c. 12 ml   d. 36 ml
3. if (x + 1/x)= 3 then find the value of (x8+1/x8) a. 3037   b. 2207   c. 1000   d. 800
4. The sum of ages of two people is 40 years. After 5 years the ratio of their ages will be 3:7 what is the ratio of their present ages?a. 1:3   b. 1:2  c. 2:1   d. 3:1
5. Two numbers are in the ratio 11:6 if the first number is increased by 200 and second by 50% then the new ratio becomes 5:3 determine the original number

a. 40 and 25   b. 24 and 15  c. 550 and 300   d. 32 and 20

1. The electricity bill of JMD is partly fixed and partly varies as the number of units of electricity consumed. When is a certain month 650 units consumed the bill was Rs. 2,130. In yet another month 720 units were consumed and the bill was Rs. 2,340. What would be the bill for the month 940 units consumed? a. 3,575   b. 3,000   c. 4,350   d. 2,990
2. A person invested Rs. 2500 on simple interest and got Rs. 200 at the end of the year as interest. What was his rate of interest? a. 12% p.a  b. 10% p.a  c. 8% p.a  d. 6% p.a
3. The diameter of the wheel of a car is 14 m. It makes 5 revolutions per 11 seconds. What is the speed of the car?a. 48 kmph   b. 72 kmph  c. 64 kmph  d. 56 kmph
4. Ashif sold an article for Rs 315 at a profit of 5%. What would have been the loss incurred by him it it was sold for Rs. 275? a. 7.625%  b. 4.5 %  c. 5.625%   d. 6.25%   e. 8.33%
5. The internal and external radii of a hollow cylinder are 4 cm and 6 cm respectively. What is the ratio of its internal surface area to its external surface area?a. 4:9  b. 2:3  c. 3:4   d. 9:4
6. If A+B+C = 450 and A:B:C=3:5:7, then the value of “A” is: a. 60  b. 90  c. 120  d. 140
7. Two numbers are in the ratio of 4:9. If the first number is increased by 50% and second number is doubled then the ratio becomes 1:3 then original numbers are:a. 36,81  b. 27,12  c. 18,36  d. 80,90
8. Two circular cylinders of equal volume have heights in the ratio of 1:2. Ratio of their radii is:

a. 1.414:1            b. None c.1.69:1    d.1.732:1

1. Atul sold two mobiles for Rs.9900 each. At one mobile, he gained 10% and on other he lost 10%. Find his gain or loss in transaction.        a.Loss 1%      b.Neither loss Nor gain     c.Gain 1%     d.none
2. Three pipes can fill the tank in 18 hours. One of the pipes can fill it in 18 hrs and the other pipe can empty in 9 hours. At what rate does the third pipe work? a.  emptying the tank in 18 hours      b. Filling the tank in 9 hours c.Filling the tank in  18 hours   d. emptying the tank in 9 hours
3. A rectangular grassy plot is 112m by 78m.It has a gravel path 2.5m wide all around it on the inside. Find the cost of constructing it at Rs. 2 per m2.a.  Rs. 2,300    b.Rs. 1,567  c. Rs. 1,850    d. Rs. 2,355
4. A man spend Rs. 660 on tablets and chairs, the price of each table being Rs.150, and the price of each chair being Rs.20. If he buys the maximum number of tables, what is the ratio of chairs to tables purchased?a.       3:4     b. 2:3    c. 2:5   d. 3:5
5. A Shopkeeper allow a discount of 20% on the marked price but charges 5% sales tax on the marked price and 5% service tax on the discounted price. If the customer pays Rs. 2670 as price including tax, then what is marked price of the item?
6. The simple interest on Rs.4,500 for 4 years at 15% p.a. is:

A. Rs. 2700          B. Rs. 2500           C. Rs. 2300           D. 3000

1. A rectangular grassy plot is 112 m by 78 m. It has a gravel path 2.5m wide all round it on the inside. Find the area of the path   A. 925 m2  B. 926 m2         C. 912 m2             D. 950 m2
2. find the surface area of a piece of metal which is in the form of a parellelogram whose base is 10 cm and height is 6.4 cm. a. 64 cm2   b. 65 cm2   c. 45 cm2  d. 56
3. A sum of Rs. 900 amounts to Rs. 950 in 3 years at simple interest. If the interest rate

Is increased by 4%, it would amount to how much?

1. two trains for palwal leave kanpur at 10a.m and 10:30 am and travel at the speeds of 60 kmph and 75 kmph respectively.  After how many kilometers from kanpur will the two trains be together?
2. (x + 1/x) = 6 the value of ( x5 + 1/x5 ) = ?
3. A sum of Rs 468.75 was lent out at simple interest and at the end of 1 year and 8 months, the total amount of Rs 500 is recieved. find the rate of interest.

a. 2%     b. 4%     c. 1%      d. 3%

1. A mixture of 40 litres of salt and water contains 70%of salt.how much water must be added to decrease the salt percentage to 40%?

A. 40 litres  B. 30 litres  C. 20 litres  D.2 litres

1. If 28 Men working 6 hours a day can finish a work in 15 days. In how many days can 21 men working 8 hours per day will finish the same work?a. 24 days   b. 21 days  c. 18 days   d. 15
2. Rs 5000 was divided among 5 men, 6 women and 5 boys, such that the ratio of the shares of men, women and boys is 5:3:2 what is the share of the boy?a. 200    b. 100    c. 250     d. 150
3. A train is running at the rate of 60 kmph. A man is also going in the same direction on a track parallel to the rails at a speed of 45 kmph. If the train crosses man in 48 seconds, the length of the train is? a. 50m   b.  150m c. 100m  d. 200m
4. A cone of height 21 cm has a volume of 2200 cm3. Determine the base radius of the cone

a. 2.5 cm   b. 10 cm  c. 7.5 cm  d. 5 cm

1. Ram started his journey at 9.00 a.m. at 8 km/hour. Hamid started from the same spot in the same direction at 9.30 a.m. at 10 km/hour. Hamid overtakes Ram at :
2. 11.00 a.m. (B) 12.30 p.m.(C) 12.00 noon (D) 11.30 a.m.
3. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?1) Cricket 2) Football 3) Polo 4) Carrom 5) Hockey
4. In the word CONTRACTUAL, the positions of the first and the eleventh letters are interchanged. Similarly, the positions of the second and the tenth letters are interchanged, and so on, up to the positions of fifth and seventh letters are interchanged, keeping the position of sixth letter unchanged. Which letter will be the third to the right of the sixth letter from the left end?  
   1) U 2) N 3) T 4) A 5) None of these
5. In a certain code, LATE is written as $%#@ and WIDE is written as \*?▲@. How is DIAL written in that code?  
   1) ▲@#$ 2) ▲@%$ 3) ▲?%$ 4) ▲?%# 5) None of these
6. What will come in place of the question mark (?) in the following series based on their positions in the English alphabet?  
   DGH JMN ? VYZ 1) PRS 2) QST 3) OQR 4) ORS 5) None of these
7. If in the following set of numbers, the first and the third digits are interchanged in each number, which number will be second if arranged in ascending order after interchanging the digits?  
   583  645  396  287  469 1) 583 2) 645 3) 396 4) 287 5) 469
8. **Direction Each of the following problems has a question and two statements that are labeled (1) & (2). Use the data given in (1) & (2) together with other available information to decide whether the statements are sufficient to answer the question. Then,**
9. Statements (1) alone is sufficient.
10. Statements (2) alone is sufficient.
11. Statements (1) and (2) together is sufficient.
12. Either statements (1) alone or statement (2) alone is sufficient
13. Statements (1) & (2) together is not sufficient.

1. If x6 - y6 = 0, what is the value of x3 – y3?

6

1) x is positive

2) y is greater than 1.

2. What is the value of 2x+y?

1) x+y = 2

2) 4x+2y = 6.

3. Is Anil taller than Sachin?

I. Dinesh is of the same height as Arun and Sachin.

II. Sachin is not shorter than Dinesh.

4. In a certain code language, ‗13‘ means ‗stop smoking‘ and ‗59‘ means ‗injurious habit‘. What is the meaning of ‗9‘ and ‗5‘ respectively in that code?

I. ‗157‘ means ‗stop bad habit‘

II.‗839‘ means ‗smoking is injurious‘.