Q1. An amount was first reduced by 10% and then further reduced by 20% and Rs 10800 were left. What was the original amount?   [level 2, Accenture]
a. Rs12 000   b. 15000   c. 18000   d. 21000
Ans: b
Soln: 10800 = 80% of (90% of the original amount)

Q2. Peter got 30% of the maximum marks in an examination and failed by 10 marks. However, Paul who took the same examination got 40% of the total marks and got 15 marks more than the passing marks. What were the passing marks in the examination?   [Level 2, Wipro]
a. 35   b. 250   c. 75   d. 85
Ans: d
Soln: Passing marks = 30% of the total marks + 10 = 40% of the total marks – 15
So, 10% of the total marks = 25

Q3. A rickshaw dealer buys 30 rickshaws for Rs.4725. Of these, 8 are four seaters and rest are two seaters. At what price must he sell the four seaters so that if he sells the two seaters at 3/4th of this price, he makes a profit of 40% on his outlay.   [Level 2, Wipro]
(a) Rs. 180
(b) Rs. 270
(c) Rs. 360
(d) Rs. 450
(e) None of these
Ans: b
Total investement = Rs. 4725
Total SP = 1.4*4725 = 6615
Now, Let the price of 4 seater be x then price of two seater will be .75x.
8x + 22*0.75x = 6615
24.5x= 6615 or x = 270

Q4. Ritesh bought 25 washing machines and microwave ovens for Rs. 2,05,000. He sold 80% of the washing machines and 12 microwaves ovens for a profit of Rs 40,000. Each washing machine was marked up by 20% over cost and each microwave oven was sold at a profit of Rs. 2,000. The remaining washing machines and 3 microwave ovens could not be sold. What is Raghav's overall profit/loss?   [Level 3, TCS]
(a) Rs. 1000 profit
(b) Rs. 2500 loss
(c) Rs. 1000 loss
(d) Cannot be determined
(e) None of these.
Ans: c
Total number of Microwave ovens = 15 (12 sold +3 unsold)
Hence, Washing machines = 10
He sold 12 ovens and 8 washing machines
Hence, In total he sold 80% of both
Thus, He sells 80% of both at a profit of Rs. 40,000.
Cost of 80% of the goods = 0.8*2,05,000 = 1,64,000
Hence, Total SP = 1,64,000+40,000 = 2,04,000
CP = 2,05,000
Loss = Rs.1000

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Q5. A boat can travel 104 km downstream in 8 hours. If the speed of the stream is 2 km/hr, then at what time will it be able to cover 13 km upstream?   [Level 2, Wipro]
 1) 8/3 hrs   2) 13/9 hrs   3) 5/2 hrs   4) 5/3 hrs
Ans: 2
Solution: Use: Downstream speed = Speed of boat in still water + Speed of the stream

Q6. A boat can go 40 km downstream and 25 km upstream in 7 hours 30 minutes. It can go 48 km downstream and 36 km upstream in 10 hours. What is the speed (in km/hr) of the boat in still water?
                                                            [Level 2, Accenture]
1) 6   2) 12   3) 9   4) 15
Ans: 3

Solution: Key Concepts
Speed of boat downstream = Speed of boat in still water + Speed of stream
Speed of boat upstream = Speed of boat in still water − Speed of stream

Q7: A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is: [Level 2, Infosys]
A. Rs. 120   B. Rs. 121   C. Rs. 122   D. Rs. 123
Ans: B
Solution: Use Amount = $P(1 + R/100)^n$

Q8. A, B and C enter into a partnership investing Rs 35000, Rs 45000 and 55000. Find their respective shares in annual profit of 40,500.   [Level 2, Wipro]
A. 10500, 13500, 19500   B. 10500, 13500, 18500   C. 10500, 13500, 17500
D. 10500, 13500, 16500
Ans: D
Solution:
Ratio of Profits = 35 : 45: 55 = 7: 9: 11
Now divide 40500 in this ratio.

Q9. The ratio of the earnings of P and Q is 9: 10. If the earnings of P increases by one-fourth and the earnings of Q decreases by one-fourth, then find the new ratio of their earnings?
                                                            [Level 2, Accenture]
A. 2:3   B. 3:2   C. 4:3   D. 3:4
Ans: B
Solution:
New ratio of earning of P and Q = (9 + 9/4) : (10 − 10/4) = 3: 2

Q10. How much water must be added to 60 litres of milk at 1.5 litres for Rs. 20 So as to have a mixture worth Rs.32/3 a litre?   [level 2, Wirpo, TechM]
A.10   B. 12   C. 15   D. 18
Ans: C
Solution: Use rule of allegation. Find cost of 1 litre of mixture first.
(40/3 − 32/3) : (32/3 − 0) = x : 60
So, x = 15

Q11. The average weight of 3 men A, B and C is 84 kg. Another man D joins the group and the average now becomes 80 kg. If another man E, whose weight is 3 kg more than that of D, replaces A then the average weight of B, C, D and E becomes 78 kg. The weight of A is   [Level 2, TCS]

A. 70 kg   B. 72 kg   C. 79 kg   D. 78 kg

Ans: C

Solution:

A + B + C = 84 x 3 = 252

A + B + C + D = 80 x 4 = 320

So, D = 68

So, E = 71

B + C + D + E = 78 x 4 = 312

So, B + C = 312 − 68 -71 = 173

So, A = 252 − 173 = 79

Q12. Three men, four women and six children can complete a work in seven days. A woman does double the work a man does and a child does half the work a man does. How many women alone can complete this work in 7 days?   [Level 2, Accenture]

A. 7   B. 8   C. 12   D. CND
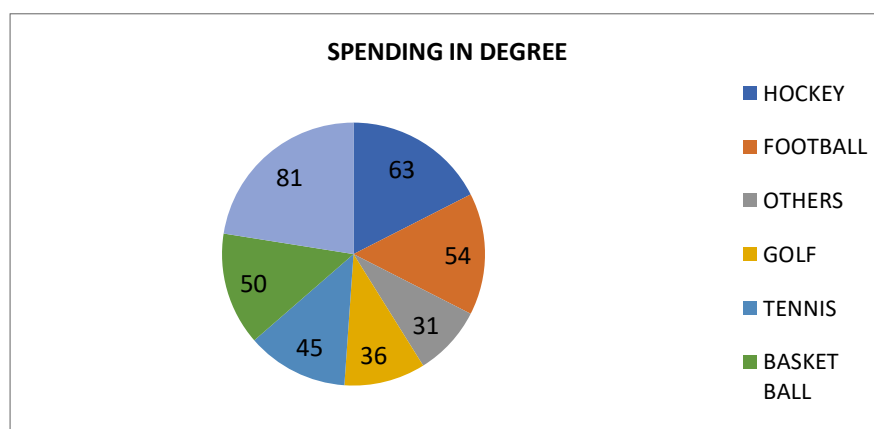
Ans: A

Solution:

1W = 2M

1M = 2C

1W = 4C

Now, Use $M_1D_1 = M_2D_2$

Q13. Direction: The circle-graph given here shows the spending of a country on various sports during a particular year. Study the graph carefully & answer the questions given below it.   [Level 1, Infosys]

SPENDING IN DEGREE

- HOCKEY — 63
- FOOTBALL — 54
- OTHERS — 31
- GOLF — 36
- TENNIS — 45
- BASKET BALL — 50
- 81

What percent of the total spending is spent on Tennis?

a)12.5%   b)22.5%   c)25%   d)45%
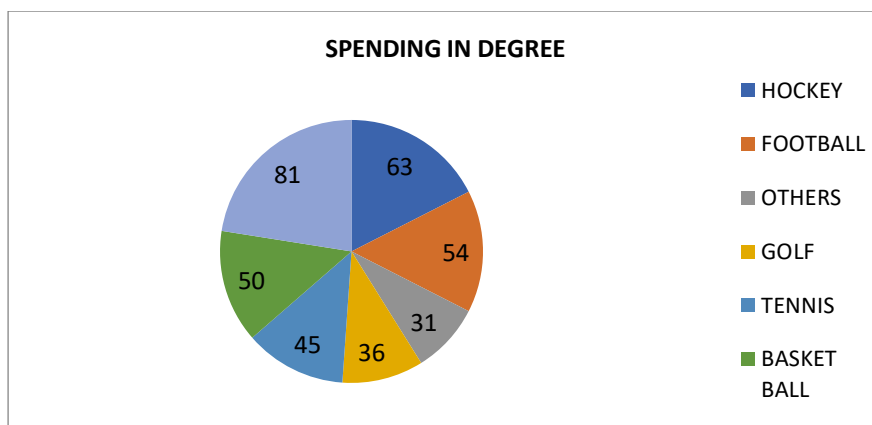
Ans: A

Solution:

Spending on tennis = (45/360) x 100 = 12.5%

Q14. Direction: The circle-graph given here shows the spending of a country on various sports during a particular year. Study the graph carefully & answer the questions given below it.

[Level 1, Infosys]

How much percent more is spent on Hockey than that on Golf?
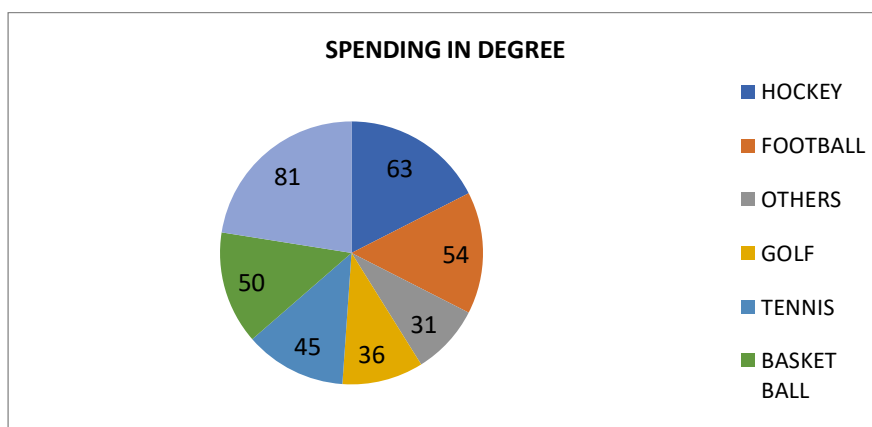
a)27%   b)35%   c)37.5%   d)75%

Ans: D

Solution:

Required percentage = [(63 – 36)/36] x 100 = 75%

Q15. Direction: The circle-graph given here shows the spending of a country on various sports during a particular year. Study the graph carefully & answer the questions given below it.

[Level 1, Infosys]

How much percent more is less on Football than that on Basket Ball and Tennis taken together?

a)22.22%   b)27%   c)43.15%   d)37.5%

Ans: C

Solution:

Required percentage = [(95 – 54)/95] x 100 = 43.15%