

1. On a certain date, Pakistan has a success rate of 60% against India in all the ODIs played between the two countries. They lost the next 30 ODIs in a row to India and their success rate comes down to 30%. The total number of ODIs played between the two countries is. (Tech Mahindra)

- A) 50
- B) 45
- C) 60
- D) 30

Answer -- C

Hint—Basic Percentage Concept

2. A is x% less than B, A is y% less than C. C is k% more than B. Express k in terms of x and y. (TCS)

- A)  $(y-x)100/100-y$
- B)  $(y+x)100/100-y$
- C)  $(y-x)100/100-x$
- D)  $(y-x)100/100+y$

Answer—A

Hint--  $A = B(1 - x/100)$  ----- Equation (1)     $A = C(1 - y/100)$  -----Equation (2)

$C = B(1 + k/100)$  ----- Equation (3)

3. If the selling price is tripled and cost price doubled the profit would become 65%. What is the present profit (in %)?(Tech Mahindra)

- A) 20
- B) 15
- C) 25
- D) 10

Answer—D

Hint—Basic Profit and Loss

4. A shop keeper sells an article at a loss of 8%, but when he increases the selling price of the article by Rs. 164 he earns a profit of 2.25% on the cost price. If he sells the same article at Rs. 1760, what is his profit percentage? (TCS)

- A) 2.5%
- B) 5%
- C) 10%
- D) 7.5%

Answer—C

Hint-- Let Cost price of the article be 'cp' Then,  $102.25 \text{ cp} - 92 \text{ cp} = 164 \times 100$   
 $10.25 \text{ cp} = 16400 \text{ cp} = 1600$   
 Now, if he sells at Rs. 1760 Profit =  $1760 - 1600 = 160$   
 Profit% =  $160/1600 \times 100 = 10\%$ .

5. A box consist of 5 rupees, 2 rupees and 1 rupee coins and their value are in the ratio of 15 : 4 : 2 respectively. If there are total 112 coins, then how many 2 rupees coins are there in the box? (TCS)

A) 32

B) 48

C) 64

D) 24

Answer—A

Hint— $15x/5 + 4x/2 + 2x/1 = 112$

6. The incomes of S and T are in the ratio 3 : 4 and their expenditures are in the ratio 1 : 1. If S saves Rs 4000 and T saves Rs 22000, then what will be the income (in Rs) of S? (TCS)

A) 45000

B) 54000

C) 60000

D) 65000

Answer—B

Hint—Basic ratio concept

7. 8 litres are drawn from a cask full of wine and is then filled with water. This operation is performed three more times. The ratio of the quantity of wine now left in cask to that of the water is 16 : 65. How much wine the cask holds originally? (Wipro)

A) 18 litres

B) 24 litres

C) 32 litres

D) 42 litres

Answer—B

Hint— Final conce. =  $x(1 - 8/x)^4$

8. A sum of money amounts to Rs.6690 after 3 years and to Rs.10,035 after 6 years on compound interest.find the sum. (Tech Mahindra)

A) 4360

B) 4460

C) 4560

D) 4660

Answer—B

Hint—  $P(1+R/100)^3=6690\dots(i)$     $P(1+R/100)^6=10035\dots(ii)$

On dividing, we get  $(1+R/100)^3=10025/6690=3/2$ .

9. Reena took a loan of Rs. 1200 with simple interest for as many years as the rate of interest. If she paid Rs. 432 as interest at the end of the loan period, what was the rate of interest? (Tech Mahindra)

A) 3.6

B) 6

C) 18

D) Cannot be determined

Answer—B

Hint—  $P \times R \times R/100$

10 Jaclyn buys \$50 000 worth of debentures in a company. She earns 9.5% p.a. simple interest, paid to her quarterly (that is, every 3 months). If the agreed period of the debenture was 18 months: calculate the total amount collected at the end of the term. (Wipro)

A) 8125

B) 9125

C) 7125

D) 6125

Answer—C

Hint—  $(50000 \times 9.5/100) \times 6$

11. A can do a piece of work in 10 days, B in 15 days. They work together for 5 days, the rest of the work is finished by C in two more days. If they get Rs. 3000 as wages for the whole work, what are the daily wages of A, B and C respectively (in Rs): (Capegemini)

A) 200, 250, 300

B) 300, 200, 250

C) 200, 300, 400

D) None of these

Answer—B

Hint— A's 5 days work = 50%   B's 5 days work = 33.33%   C's 2 days work = 16.66%

12. A, B and C can do a piece of work in 24 days, 30 days and 40 days respectively. They began the work together but C left 4 days before the completion of the work. In how many days was the work completed? (Wipro)

- A) 11 days
- B) 12 days
- C) 13 days
- D) 14 days

Answer—A

Hint—  $(A + B + C) + (A + B)4 = TW$

13. The average of 15 numbers is 7. If the average of the first 8 numbers is 6.5 and the average of the last 8 numbers is 8.5 then middle number is. (Capegemini)

- A) 10
- B) 23
- C) 13
- D) 15

Answer – D

Hint – Average = Sum of all items/total no. of items

14. Two pipes A and B can fill a tank in 15 minutes and 20 minutes respectively. Both the pipes are opened together but after 4 minutes, pipe A is turned off. What is the total time required to fill the tank? (Wipro)

- A) 10 min. 20 sec.
- B) 11 min. 45 sec.
- C) 12 min. 30 sec.
- D) 14 min. 40 sec.

Answer – D

Hint – Part filled in 4 minutes =  $4(1/15 + 1/20) = 7/15$

15. BASE + BALL = GAMES Find the value of G+A+M+S. (Infosys)

- A) 23
- B) 20
- C) 22
- D) None of these

Answer – C

Hint – use hit and trail method and crypt concep