**1. Excluding stoppages, the speed of a bus is 54 km/hr and including stoppages, it is 45 km/hr. For how many minutes does the bus stop per hour?**

1. 9
2. 10
3. 12
4. 20

**Answer: Option 2**  
**Solution**

Due to stoppages, it covers 9 km less.  
Time taken to cover 9 km = 9/54 \* 60 = 10 min.

**2. A jogger running at 9 km/hr**along side**a railway track is 240 m ahead of the engine of a 120 m long train running at 45 km/hr in the same direction. In how much time will the train pass the jogger?**

1. 3.6 sec
2. 18 sec
3. 36 sec
4. 72 sec

**Answer: Option 3**  
**Solution**

Speed of train relative to jogger = 45 – 9 = 36 km/hr.  
= 36 \* 5/18 = 10 m/sec.  
Distance to be covered = 240 + 120 = 360 m.  
Time taken = 360/10 = 36 sec.

**3. Kim can do a work in 3 days while David can do the same work in 2 days. Both of them finish the work together and get Rs. 150. What is the share of Kim?**

1. Rs. 30
2. Rs. 60
3. Rs. 70
4. Rs. 75

**Answer: Option 2**  
**Solution**

Kim’s wages : David’s wages = Kim’s 1 day work : David’s 1 day work = 1/3 : 1/2 = 2:3  
Kim’s share = 2/5 \* 150 = Rs. 60

**4. A and B start a business, with A investing the total capital of Rs.50000, on the condition that B pays A interest @ 10% per annum on his half of the capital. A is a working partner and receives Rs.1500 per month from the total profit and any profit remaining is equally shared by both of them. At the end of the year, it was found that the income of A is twice that of B. Find the total profit for the year?**

1. 53000
2. 58000
3. 50000
4. 59000

**Answer: Option 4**  
**Solution**

Interest received by A from B = 10% of half of Rs.50000 = 10% \* 25000 = 2500.  
An amount received by A per annum for being a working partner = 1500 \* 12 = Rs.18000.  
Let ‘P’ be the part of the remaining profit that A receives as his share. Total income of A = (2500 + 18000 + P)  
Total income of B = only his share from the remaining profit = ‘P’, as A and B share the remaining profit equally.  
Income of A = Twice the income of B  
(2500 + 18000 + P) = 2(P)  
P = 20500  
Total profit = 2P + 18000  
= 2\*20500 + 18000 = 59000

**5. Salaries of Ravi and Sumit are in the ratio 2:3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40:57. What is Sumit’s present salary?**

1. Rs. 17,000
2. Rs. 20,000
3. Rs. 25,500
4. None of these

**Answer: Option 4**  
**Solution:**  
Let the original salaries of Ravi and Sumit be Rs. 2x and Rs. 3x respectively.  
Then, (2x + 4000)/(3x + 4000) = 40/57  
6x = 68000 => 3x = 34000  
Sumit’s present salary = (3x + 4000) = 34000 + 4000 = Rs. 38,000.

**6. A man can row 6 kmph in still water. When the river is running at 1.2 kmph, it takes him 1 hour to row to a place and black. What is the total distance traveled by the man?**

1. 6.24 km
2. 6 km
3. 5.76 km
4. 5.66 km

**Answer: Option 3**  
**Solution**  
M = 6  
S = 1.2  
DS = 7.2  
US = 4.8  
x/7.2 + x/4.8 = 1  
x = 2.88  
D = 2.88 \* 2 = 5.76

**7. At what rate percent per annum will the simple interest on a sum of money be 2/5 of the amount in 10 years?**

1. 4%
2. 5 2/3 %
3. 6%
4. 6 2/3 %

**Answer: Option 1**  
**Solution**  
Let sum = x. Then, S.I. = 2x/5, Time = 10 years.  
Rate = (100 \* 2x) / (x \* 5 \* 10) = 4%

**8. If the area of a circle is 616 sq cm then its circumference?**

1. 78 m
2. 88 m
3. 75 m
4. 70 m

**Answer: Option 2**  
**Solution**

22/7 r2 = 616 => r = 14  
2 \* 22/7 \* 14 = 88

**9. The mean of 50 observations was 36. It was found later that an observation 48 was wrongly taken as 23. The corrected new mean is?**

1. 35.2
2. 36.1
3. 36.5
4. 39.1

**Answer: Option 3**  
**Solution**  
Correct sum = (36 \* 50 + 48 – 23) = 1825.  
Correct mean = 1825/50 = 36.5

**10. The H.C.F and L.C.M of two numbers are 84 and 21 respectively. If the ratio of the two numbers is 1:4, then the larger of the two numbers is?**

1. 12
2. 48
3. 84
4. 108

**Answer: Option 3**  
**Solution**

Let the numbers be x and 4x. Then, x \* 4x = 84 \* 21 x2 = (84 \* 21)/4 = x = 21.  
Hence, larger number = 4x = 84.

**11. If the sum and difference of two numbers are 20 and 8 respectively, then the difference of their square is?**

1. 12
2. 28
3. 160
4. 180

**Answer: Option 3**  
**Solution**

Let the numbers be x and y.  
Then, x + y = 20 and x – y = 8  
x2 – y2 = (x + y)(x – y) = 20 \* 8 = 160.

**12. Pipes A and B can fill a tank in 5 and 6 hours respectively. Pipe C can empty it in 12 hours. If all the three pipes are opened together, then the tank will be filled in?**

1. 1 13/17 hours
2. 2 8/11 hours
3. 3 9/17 hours
4. 4 1/2 hours

**Answer: Option 3**  
**Solution**  
Net part filled in 1 hour = 1/5 + 1/6 – 1/12 = 17/60  
The tank will be full in 60/17 hrs, i.e., 3 9/17 hrs.

**13. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period(in years) is?**

1. 2
2. 2 1/2
3. 3
4. 4

**Answer: Option 1**  
**Solution**

Amount = (30000 + 4347) = Rs. 34347

Let the time be n years. Then,  
30000(1 + 7/100)n = 34347  
= (107/100)n = 34347/30000 = (107/100)2  
n = 2 years.

**14. A cylinder and a cone have the same height and same radius of the base. The ratio between the volumes of the cylinder and cone is?**

1. 1:3
2. 3:1
3. 1:2
4. 2:1

**Answer: Option 2**

**Solution:**3:1

**15. Find the one which does not belong to that group?**

1. Baseball
2. Boxing
3. Chess
4. Wrestling

**Answer: Option 1**  
**Solution:**

Boxing, Chess, Wrestling and Squash are individual events, while Baseball is a team event.

**16. A fair price shopkeeper takes 10% profit on his goods. He lost 20% goods during**theft**. His loss percent is?**

1. 8
2. 10
3. 11
4. 12

**Answer: Option 4**  
**Solution**  
Suppose he has 100 items. Let C.P. of each item be Re. 1.

Total cost = Rs. 100. Number of items left after theft = 80.  
S.P. of each item = Rs. 1.10  
Total sale =  1.10 \* 80 = Rs. 88  
Hence, loss % = 12/100 \* 100 = 12%

**17. Eighteen years ago, a father was three times as old as his son. Now the father is only twice as old his son. Then the sum of the present ages of the son and the father is?**

1. 54
2. 72
3. 105
4. 108

**Answer: Option 4**  
**Solution**

Let the present ages of the father and son be 2x and x years respectively.

Then, (2x – 18) = 3(x – 18) => x = 36  
Required sum = (2x + x) = 108 years.

1**8. In an office, totally there are 6400 employees and 65% of the total employees are males. 25% of the males in the office are at-least 50 years old. Find the number of males aged below 50 years?**

1. 1040
2. 2080
3. 3120
4. 4160

**Answer: Option 3**  
**Solution**

Number of male employees = 6400 \* 65/100 = 4160

Required number of male employees who are less than 50 years old = 4160 \* (100 – 25)%  
= 4160 \* 75/100 = 3120.

**19. The sum of four consecutive even numbers is 292. What would be the smallest number?**

1. 74
2. 76
3. 70
4. 68
5. None of these

**Answer: Option 3**  
**Solution**

Let the four consecutive even numbers be 2(x – 2), 2(x – 1), 2x, 2(x + 1)

Their sum = 8x – 4 = 292 => x = 37  
Smallest number is: 2(x – 2) = 70.

**20.**I. a2 – 9a + 20 = 0,

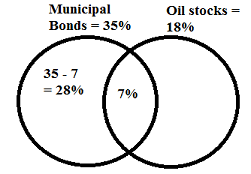
      II. 2b2 – 5b – 12 = 0 to solve both the equations to find the values of a and b?

1. If a < b
2. If a = b
3. If the relationship between a and b cannot be established
4. If a > b
5. If a = b

**Answer: Option 4**  
**Solution**

I. (a – 5)(a – 4) = 0=> a = 5, 4  
II. (2b + 3)(b – 4) = 0  
=> b = 4, -3/2 => a = b

**21.  Among a group of 2500 people, 35 percent invest in municipal bonds, 18 percent invest in oil stocks, and 7 percent invest in both municipal bonds and oil stocks. If 1 person is to be randomly selected from 2500 people, what is the probability that the person selected will be one who invests in municipal bonds but not in oil stocks?**



1. 8/25
2. 7/25
3. 9/25
4. 4/25

**Answer: 2**

**Solution**

2500 is redundant

From the diagram we know that only ones who invested in municipal bonds are 28%, the probability is 28 / 100 = 7/25

**22. 6.4 \* 1.25 = (?)3**

1. 1
2. 4
3. 2
4. 3
5. 5

**Answer: Option 3**  
**Solution**

8 = (?)3

=> ?3 = 23 => ? = 2

**23. The dimensions of a room are 25 feet \* 15 feet \* 12 feet. What is the cost of**white washing**the four walls of the room at Rs. 5 per square feet if there is one door of dimensions 6 feet \* 3 feet and three windows of dimensions 4 feet \* 3 feet each?**

1. Rs. 4800
2. Rs. 3600
3. Rs. 3560
4. Rs. 4530
5. None of these

**Answer: Option 4**  
**Solution**  
Area of the four walls = 2h(l + b)

Since there are doors and windows, area of the walls = 2 \* 12 (15 + 25) – (6 \* 3) – 3(4 \* 3) = 906 sq.ft.  
Total cost = 906 \* 5 = Rs. 4530.

**24.** **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. Food: Hunger
2. Water: Thirst
3. Air: Suffocation
4. Talent: Education
5. Leg: Lame

**Answer: Option 4**  
**Solution**

-NA-

**25. 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. 226
2. 290
3. 360
4. 170
5. 122

**Answer: Option 3**  
**Solution**

After a close look you will get the exact 360 each number is one more than square of a natural number, i.e.,226 = 152+ 1 ; 290 = 172+ 1 ; 170 = 132+ 1 ; 122 = 112+ 1.