Q:1 Average temperature of a city in a week (Mon – Sun) was found to be 38° C. The average temperature on first four days was 38.75° C. If the temperature on Saturday was the average of the temperature on Friday and Sunday, what is the temperature recorded on Saturday?
1. 34°C
2. 35°C
3. 36°C
4. 37°C

Q:2 In a group of 7 people of average weight 69kg when a person of weight 69kg was replaced by another person the average weight is reduced by 2kg what is the weight of the new person?
1. 55kg
2. 70kg
3. 68kg
4. 83kg

Q:3 The average weight of 4 children in a family is 25 kg. The heaviest children's weight is 10 kg more than the lightest children. If the average weight of the other two children is 15 kg, then find the weight of the heaviest children.
1. 30 kg
2. 45 kg
3. 40 kg
4. 50 kg

Q:4 The average weight of 15 boys in a group is 58 kg and the average weight of some boys in another group is 62 kg. Find the number of boys in another group if the average weight of all the boys together is 59 kg.
1. 15
2. 10
3. 5
4. 9

Q:5 The average of a set of 11 numbers is 34.5. Two numbers equal to 42.35 and 46.15 respectively are added to the set. What is the new average?
1. 35.5
2. 36
3. 36.5
4. 37

Q:6 The average of 5 consecutive natural numbers is 41. If x and y are the largest and smallest of those numbers, then what is the value of 4x + 2y?
1. 230
2. 240
3. 250
4. 260

Q:7 The average run of a cricket team is 32 in a one-day match. If one of the player gets out without making any run, then find the average run scored by the player of the cricket team who makes run.
1. 32
2. 35.8
3. 35.2
4. 32.5

Q:8 The V-mart has sales of Rs. 3000, Rs. 4500, Rs. 6000, Rs. 7500, Rs. 9000 for 5 months. The average of the 6 months is Rs. 7000. How much more is the sales of 6th month is more than 5th month?
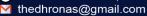1. ₹12000
2. ₹3000
3. ₹0
4. Can't be determined

Q:9 The average mark of 8 students in a class is 62.5. Two students, one with the highest score and the other with the lowest score, leave the group, so the new average becomes 65. If the lowest score is 10 then find the highest score.
1. 80
2. 70
3. 100
4. 40

Q:10 The average of 25 numbers is 36. If the average of the first 13 numbers is 32 and the average of the next 10 numbers is 42, find the average of the rest of the numbers.
1. 36
2. 32
3. 42
4. 40

Answer Key

1. (4)	2. (1)	3. (3)	4. (3)	5. (2)
6. (3)	7. (3)	8. (4)	9. (3)	10. (2)

Answers and Solutions

Q:1 The correct answer is **option 4** i.e. **37°C**
Sum of temperatures on last three days = Sum of temperature on all seven days − Sum of temperature on first four days
Sum = Average × Number of observations
Let the temperature on Saturday be x
Sum of temperature on Friday and Sunday = Average × 2
$\Rightarrow$ x × 2 = 2x [∵ the temperature on Saturday was the average of the temperature on Friday and Sunday]
$\Rightarrow$ 2x + x = 7 × 38 − 4 × 38.75
$\Rightarrow$ 3x = 111
$\Rightarrow$ x = 37° C
Temperature on Saturday = 37°C

Q:2 The correct answer is **option 1** i.e. **55 kg**
Total weight of the group = 7 × 69 = 483 kg
When a person was replaced then the new total weight = 7 × 67 = 469 kg
Total weight reduced = 483 - 469 = 14 kg
Weight of new person = 69 - 14 = 55 kg

Q:3 The correct answer is **Option 3** i.e. **40 kg**.
The sum of the weight of 4 persons = 25 × 4 = 100 kg
Let the weight of the lightest person = 'x' kg
The weight of the heaviest person = (x + 10) kg
The sum of the weight of the remaining two persons = 15 × 2 = 30 kg
According to the question,
x + x + 10 + 30 = 100
2x = 60
x = 30
The weight of the heaviest person = 30 + 10 = 40 kg

Q:4 The correct answer is **option 3** i.e. **5**
Average = Sum of total weight/ total boys
The average weight of 15 boys = 58
The average weight of some boys = 62
The average weight of all the boys together = 59
Let the number of boys in the 2nd group = x
Now,
58 × 15 + 62 × x = 59 × (15 + x)
$\Rightarrow$ 3x = 15
$\Rightarrow$ x = 5.
The number of boys in the 2nd group = 5

Q:5 The correct answer is **option 2** i.e. **36.**
Initial sum of numbers = Average × 11 = (34.5 × 11) = 379.5
Sum after adding two numbers = (379.5 + 42.35 + 46.15) = 468
New average = Sum after addition/Number of observations after addition
$\Rightarrow$ 468/13 = 36

Q:6 The correct answer is **option 3** i.e. **250**
Average of 5 consecutive numbers = (5 + 1)/2 = 3rd term = 41
∴ First number (First term), y = 41 − 2 = 39
Last number (Fifth term), x = 41 + 2 = 43
$\Rightarrow$ 4x + 2y = 4 × 43 + 2 × 39
$\Rightarrow$ 250

Q:7 The correct answer is **option 3** i.e. **35.2**.
Average run = Total run/No. of players
A cricket team has 11 players.
Sum of the run of 11 players = 32 × 11 = 352
A player makes 0 runs.
So, The sum of the run of 10 players = 352
The average of the run of 10 players who make only run = 352/10 = 35.2

Q:8 The correct answer is **option 4** i.e. **Can't be determined**
Total sales of the 5 months are = (Rs. 3000 + Rs. 4500 + Rs. 6000 + Rs. 7500 + Rs. 9000) = Rs. 30000
Total sales of the 6 months are = (Rs. 7000 × 6) = Rs. 42000
Thus, the sales of the 6th month are = (Rs. 42000 - Rs. 30000) = Rs. 12000
But, here we don't know which monthly is exactly the 5th month among the given sales of 5 months. So, the answer can't be determined.

Q:9 The correct answer is **Option 3** i.e. **100.**
Average = Sum of the weight/Total students
Given that the average mark of 8 Student = 62.5
So, total marks = 62.5 × 8 = 500
New Average = 65
So, a total of 6 Student marks = (65 × 6) = 390
Now Difference = (500 – 390) = 110
Given that the lowest score = 10
Highest score = (110 – 10) = 100

Q:10 The correct answer is **option 2** i.e **32.**
Average = (sum of given number)/(total number)
The sum of the 25 number = (25 × 36) = 900
The sum of the 13 number = (13 × 32) = 416
The sum of the 10 number = (10 × 42) = 420
Let the average of rest 2 numbers = x
The sum of 23 number
⇒ (416 + 420) = 836
Sum of rest two number = (900 – 836) = 64
Average of 2 number
⇒ 64/2 = 32