Direction 1 - 5 : Read the given information carefully and answer the following questions.

Six friends measured their heights and the tallest person turned out to be 172 cm. Faiz is taller than Peter. Reeva is taller than Raju whose height turned out to be an odd number. Raju is taller than Sama who is taller than three of her friends. Zakir is 2cm taller than Faiz whose height is 158cm. Peter is 12cm shorter than Raju. Zakir is shorter than his friends with heights of 164 cm and 169 cm.

Q:1 What is the height of Raju?
1. 172 cm
2. 164 cm
3. 169 cm
4. Can't be determined
5. 157 cm

Q:2 What is the height of Sama?
1. 169 cm
2. 172 cm
3. 164 cm
4. None of these
5. 157 cm

Q:3 What is the height of Peter?
1. None of these
2. 169 cm
3. 160 cm
4. 158 cm
5. 157 cm

Q:4 Find the odd one out.
1. Reeva
2. Sama
3. Zakir
4. Faiz
5. Peter

Q:5 Who is the shortest?
1. Faiz
2. Reeva
3. Raju
4. Peter
5. Zakir

Q:6 Direction: Read the given information carefully and answer the following questions.

A person buys different instruments. Each instrument has a different cost. The cost of A is more than D but less than E. At least one instrument is bought between D and C. The cost of C is less than B but more than F. Instrument B is cheaper than G. The cost of the second most costly instrument is 8500 and the price of the third cheapest instrument is 5300. The cost of E is not the highest. More than one equipment is bought after D which is not the third cheapest.

Q:6 Which of the following statement is true?
1. G is the second costliest instrument
2. Cost of B is not 5300
3. Only one instrument is cheaper than C
4. Cost of A is more than G
5. None is true

Q:7 Which of the instrument is the second cheapest?
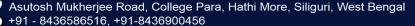1. E
2. F
3. A
4. C
5. D

Q:8 What is the possible price of A?
1. 5200
2. 7500
3. 8700
4. 8600
5. None of these

Q:9 If the cost of A is 7500rs and the average cost of B and D is 6000, then what is the sum of the cost of A and D?
1. 59000
2. 14200
3. 16100
4. 27100
5. None of these

Q:10 How many instruments are cheaper than A?
1. One
2. Two
3. Three
4. Four
5. None

Answer Key

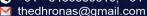| 1. (3)	2. (3)	3. (5)	4. (5)	5. (4)
6. (3)	7. (4)	8. (2)	9. (2)	10. (4)

Answers and Solutions

Q:1 The correct answer is **Option 3** i.e. **169 cm**
Reeva is taller than Raju whose height turned out to be an odd number.
Raju is taller than Sama who is taller than three of her friends.
Zakir is 2cm taller than Faiz whose height is 158cm.
Faiz is taller than Peter.
Reeva > Raju > Sama > Zakir (160 cm) > Faiz (158 cm) > Peter
The tallest person turned out to be 172 cm.
Zakir is shorter than his friends with heights of 164 cm and 169 cm. (Raju's height is 169cm.)
Peter is 12cm shorter than Raju.
Reeva (172 cm) > Raju (169 cm) > Sama (164 cm) > Zakir (160 cm) > Faiz (158 cm) > Peter (157 cm)
Hence, the correct answer is **169 cm.**

Q:2 The correct answer is **Option 3** i.e. **164 cm**
Reeva is taller than Raju whose height turned out to be an odd number.
Raju is taller than Sama who is taller than three of her friends.
Zakir is 2cm taller than Faiz whose height is 158cm.
Faiz is taller than Peter.
Reeva > Raju > Sama > Zakir (160 cm) > Faiz (158 cm) > Peter
The tallest person turned out to be 172 cm.
Zakir is shorter than his friends with heights of 164 cm and 169 cm. (Raju's height is 169cm.)
Peter is 12cm shorter than Raju.
Reeva (172 cm) > Raju (169 cm) > Sama (164 cm) > Zakir (160 cm) > Faiz (158 cm) > Peter (157 cm)
Hence the correct answer is **164 cm.**

Q:3 The correct answer is **Option 5** i.e. **157 cm**
Reeva is taller than Raju whose height turned out to be an odd number.
Raju is taller than Sama who is taller than three of her friends.
Zakir is 2cm taller than Faiz whose height is 158cm.

Faiz is taller than Peter.
Reeva > Raju > Sama > Zakir (160 cm) > Faiz (158 cm) > Peter
The tallest person turned out to be 172 cm.
Zakir is shorter than his friends with heights of 164 cm and 169 cm. (Raju's height is 169cm.)
Peter is 12cm shorter than Raju.
Reeva (172 cm) > Raju (169 cm) > Sama (164 cm) > Zakir (160 cm) > Faiz (158 cm) > Peter (157 cm)
Hence the correct answer is **157 cm.**

Q:4 The correct answer is **Option 5** i.e. **Peter**
Reeva is taller than Raju whose height turned out to be an odd number.
Raju is taller than Sama who is taller than three of her friends.
Zakir is 2cm taller than Faiz whose height is 158cm.
Faiz is taller than Peter.
Reeva > Raju > Sama > Zakir (160 cm) > Faiz (158 cm) > Peter
The tallest person turned out to be 172 cm.
Zakir is shorter than his friends with heights of 164 cm and 169 cm. (Raju's height is 169cm.)
Peter is 12cm shorter than Raju.
Reeva (172 cm) > Raju (169 cm) > Sama (164 cm) > Zakir (160 cm) > Faiz (158 cm) > Peter (157 cm)
The measured height of all except Raju and Peter is an even number.
Hence the correct answer is **Peter.**

Q:5 The correct answer is **Option 4** i.e. **Peter**
Reeva is taller than Raju whose height turned out to be an odd number.
Raju is taller than Sama who is taller than three of her friends.
Zakir is 2cm taller than Faiz whose height is 158cm.
Faiz is taller than Peter.
Reeva > Raju > Sama > Zakir (160 cm) > Faiz (158 cm) > Peter
The tallest person turned out to be 172 cm.
Zakir is shorter than his friends with heights of 164 cm and 169 cm. (Raju's height is 169cm.)
Peter is 12cm shorter than Raju.
Reeva (172 cm) > Raju (169 cm) > Sama (164 cm) > Zakir (160 cm) > Faiz (158 cm) > Peter (157 cm)
Hence the correct answer is **Peter.**

Q:6 The correct answer is **Option 3** i.e. **Only one instrument is cheaper than C**
1. The cost of A is more than D but less than E.
2. At least one instrument is bought between D and C.
3. The cost of C is less than B but more than F.
4. Instrument B is cheaper than G and A.
E > A > D _ _ _ _ _ _ _ _ _ _ _ _ (i)
D > _ _ > C
C > _ _ _ > D_ _ _ _ _ _ _ _ _ _ _ _ _ _ (ii)
G > B > C > F _ _ _ _ _ _ _ _ _ _ _ _ (iii)
A > B_ _ _ _ _ _ _ (iv)
5. The cost of the second most costly instrument is 8500 and the price of the third cheapest instrument is 5300.
6. The cost of E is not the highest.
7. More than one equipment is bought after D which is not the third cheapest.
From these conditions, the final arrangement-
G > E(8500) > A > D > B(5300) > C > F
Only option 3 is true.
Hence, the correct answer is **Only one instrument is cheaper than C.**

Q:7 The correct answer is **Option 4** i.e. **C**
1. The cost of A is more than D but less than E.
2. At least one instrument is bought between D and C.
3. The cost of C is less than B but more than F.
4. Instrument B is cheaper than G and A.
E > A > D _ _ _ _ _ _ _ _ _ _ _ _ (i)
D > _ _ > C
C > _ _ _ > D_ _ _ _ _ _ _ _ _ _ _ _ _ _ (ii)
G > B > C > F _ _ _ _ _ _ _ _ _ _ _ _ (iii)
A > B_ _ _ _ _ _ _ (iv)
5. The cost of the second most costly instrument is 8500 and the price of the third cheapest instrument is 5300.
6. The cost of E is not the highest.
7. More than one piece of equipment is bought after D which is not the third cheapest.
From these conditions, the final arrangement-
G > E(8500) > A > D > B(5300) > C > F
C is the second cheapest instrument.
Hence the correct answer is **C.**

Q:8 The correct answer is **Option 2** i.e. **7500**

1. The cost of A is more than D but less than E.
2. At least one instrument is bought between D and C.
3. The cost of C is less than B but more than F.
4. Instrument B is cheaper than G and A.
E > A > D _ _ _ _ _ _ _ _ _ _ _ _ (i)
D > _ _ > C
C > _ _ _ > D_ _ _ _ _ _ _ _ _ _ _ _ _ _ (ii)
G > B > C > F _ _ _ _ _ _ _ _ _ _ _ _ (iii)
A > B_ _ _ _ _ _ _ (iv)
5. The cost of the second most costly instrument is 8500 and the price of the third cheapest instrument is 5300.
6. The cost of E is not the highest.
7. More than one equipment is bought after D which is not the third cheapest.
From these conditions, the final arrangement-
G > E(8500) > A > D > B(5300) > C > F
The possible price of A in the given options is 7500.
Hence the correct answer is **7500.**

Q:9 The correct answer is **Option 2** i.e. **14200**
1. The cost of A is more than D but less than E.
2. At least one instrument buys between D and C.
3. The cost of C is less than B but more than F.
4. Instrument B is cheaper than G and A.
E > A > D _ _ _ _ _ _ _ _ _ _ _ _ (i)
D > _ _ > C
C > _ _ _ > D_ _ _ _ _ _ _ _ _ _ _ _ _ _ (ii)
G > B > C > F _ _ _ _ _ _ _ _ _ _ _ _ (iii)
A > B_ _ _ _ _ _ _ (iv)
5. The cost of the second most costly instrument is 8500 and the price of the third cheapest instrument is 5300.
6. The cost of E is not the highest.
7. More than one equipment is bought after D which is not the third cheapest.
From these conditions, the final arrangement-
G > E(8500) > A > D > B(5300) > C > F
Cost of D = (6000 × 2) − 5300 = 6700
Sum of D and A is = 7500 + 6700 = 14200
Hence the correct answer is **14200.**

Q:10 The correct answer is **Option 4** i.e. **Four**
1. The cost of A is more than D but less than E.
2. At least one instrument is bought between D and C.

3

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3. The cost of C is less than B but more than F.

4. Instrument B is cheaper than G and A.

E > A > D _ _ _ _ _ _ _ _ _ _ _ _ (i)

D > _ _ > C

C > _ _ _ > D _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (ii)

G > B > C > F _ _ _ _ _ _ _ _ _ _ _ _ (iii)

A > B _ _ _ _ _ _ _ (iv)

5. The cost of the second most costly instrument is 8500 and the price of the third cheapest instrument is 5300.

6. The cost of E is not the highest.

7. More than one equipment is bought after D which is not the third cheapest.

From these conditions, the final arrangement–

G > E(8500) > A > D > B(5300) > C > F

Four instruments is cheaper than A.

Hence the correct answer is **Four.**