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PT Set No 171

Directions: Study the following information carefully and answer the questions given beside.

Certain number of Bikes and Cars are parked in ten sheds numbered from 1 to 10. Shed 1 to Shed 5 are built from west to east in same order and they are in Row-1. Shed 6 to Shed 10 are built from west to east in same order and they are in Row-2. Row-2 is to the north of Row-1 such that Shed 6 is exactly in front of Shed 1, Shed 7 is exactly in front of Shed 2 and so on. Consider all the sheds are faced towards north direction. Each sheds are painted with different colors such that no two sheds are painted with same color. Each shed has at least 1 bike and 1 car.

Cost of each car is Rs.3.6 lakh and cost of each bike is Rs.2.4 lakh. Total value of each shed is equal to sum of the cost of all bikes and all cars in that shed. Total number of vehicles in a shed is equal to the sum of the number of bikes and cars in that shed. Total number of cars in all the sheds together in Row-2 is 12. Total value of all vehicles in all the sheds together in Row-1 is Rs. 66 lakh.

Total value of Purple and Yellow colored sheds are same. Total value of Green and Grey colored sheds are same. Number of bikes in Yellow and Blue colored sheds are same. Total number of cars in Green and Yellow colored sheds together is equal to 5. Number of bikes in Grey colored shed is equal to number of cars in Yellow colored shed. Average number of vehicles in White colored shed is equal to number of cars in Silver colored shed. Total value of Orange colored shed is Rs.7.2 lakh less than Silver colored shed. Shed 10 has equal number of cars and bikes.

Sum of the shed numbers of Purple and Yellow colored sheds together is 9. Brown colored shed is in Row-2. Total value of Shed 4 is Rs.9.6 lakh, which is more than only the total value of Shed 6. Grey colored shed is a prime numbered shed, which is exactly in front of White colored shed. Total value of Purple colored shed is Rs.16.8 lakh. Total value of Green colored shed is equal to the sum of the total value of Black and Brown colored sheds. There are two sheds between the only highest valued shed and Brown colored shed. Blue and Orange colored sheds are in different rows.

Silver colored shed is exactly in front of Black colored shed. Number of bikes in Silver colored shed is 2 more than the number of bikes in White colored shed. Number of bikes in White colored shed is 1 more than the number of cars in Shed 4. Total number of vehicles in Shed 4 is three. Sum of the total value of the adjacent sheds of the Blue colored shed is Rs.20.4 lakh. Total value of only one shed is more than Rs.18 lakh. Total value of Brown colored shed is half of the total value of the Orange colored shed. Grey and Green colored sheds are in different rows. Number of cars in Blue colored shed is same as number of cars in Brown colored shed.

1. What is the total number of cars parked in Purple colored shed?

- A. One B. Two C. Three D. Four E. Can't be determined

2. What is the total number of apples sold in the months having 31 days?

- A. Second to the left B. Third to the left C. Fourth to the left
D. Second to the left of the shed, which is in front of Green colored shed
E. Can't be determined

3. What is the total number of bikes in the sheds, which are at extreme ends?

- A. Seven B. Eight C. Nine D. Ten E. Can't be determined

4. In certain way Brown colored shed is related to 6 vehicles, Orange colored shed is related to 5 vehicles and in same _____ colored shed is related to 7 vehicles?

- A. Blue B. Black C. Purple D. White E. Can't be determined

5. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group?

- A. Total value of the shed is Rs.6 lakh B. Total value of the shed is Rs.13.2 lakh
C. Total value of the shed is Rs.15.6 lakh D. Total value of the shed is Rs.12 lakh
E. Total value of the shed is Rs.16.8 lakh

Correct Answers:

| | | | | |
|----------|----------|----------|----------|----------|
| 1 | 2 | 3 | 4 | 5 |
| D | C | C | B | B |

Common explanation :

References:

Certain number of Bikes and Cars are parked in ten sheds numbered from 1 to 10.

Shed 1 to Shed 5 are built from west to east in same order and they are in Row-1.

Shed 6 to Shed 10 are built from west to east in same order and they are in Row-2.

Row-2 is to the north of Row-1 such that Shed 6 is exactly in front of Shed 1, Shed 7 is exactly in front of Shed 2 and so on.

Consider all the sheds are faced towards north direction.

Each sheds are painted with different colors such that no two sheds are painted with same color.

Each shed has at least 1 bike and 1 car.

Cost of each car is Rs.3.6 lakh and cost of each bike is Rs.2.4 lakh.

Total value of each shed is equal to sum of the cost of all bikes and all cars in that shed.

Total number of vehicles in a shed is equal to the sum of the number of bikes and cars in that shed.

Total number of cars in all the sheds together in Row-2 is 12.

Total value of all vehicles in all the sheds together in Row-1 is Rs. 66 lakh.

Inferences:

From above statements,

By using above statements, the following arrangement with all sheds as shown,

Keep all above statements and below arrangement in mind while solving this seating.

| | | | | | |
|--------------------|--------|--------|--------|--------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | | | | | |
| Vehicles | | | | | |
| Total Value | | | | | |
| Total Value | | | | | |
| Vehicles | | | | | |
| Color | | | | | |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Grey colored shed is a prime numbered shed, which is exactly in front of White colored shed.

Total value of Shed 4 is Rs.9.6 lakh, which is more than only the total value of Shed 6.

Inferences:

From above statements,

Grey colored shed is a prime numbered shed i.e. Shed 7 and it is exactly in front of White colored shed i.e. Shed 2 (only possibility)

Total value of Shed 4 is Rs.9.6 lakh, which is more than only the total value of Shed 6. This implies that the total value of Shed 6 is less than Rs.9.6 lakh and also total value of Shed 4 must be lesser than remaining sheds (other than Shed 6).

By using above information we get the following arrangement,

| | | | | | |
|--------------------|--------------|--------|--------|-------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | | Grey | | | |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | | | |
| Total Value | | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | | White | | | |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Total value of Purple colored shed is Rs.16.8 lakh.

Total value of Purple and Yellow colored sheds are same.

Sum of the shed numbers of Purple and Yellow colored sheds together is 9.

Inferences:

From above statements,

By using 1st and 2nd reference points we get that total value of Purple colored shed is Rs.16.8 lakh and total value of Yellow colored sheds is Rs.16.8 lakh.

Sum of the shed numbers of Purple and Yellow colored sheds together is 9. We have 4 possible combinations to make sum 9 i.e. (1, 8), (2, 7), (3, 6) and (4, 5)

→ Combination (2, 7) is not possible since Shed 2 & Shed 7 occupied by White and Grey colored sheds

→ Combination (3, 6) is not possible since Shed 6 occupied by total value, which is less than Rs.9.6 lakh

→ Combination (4, 5) is not possible since Shed 4 occupied by total value, which is Rs.9.6 lakh

Therefore the only possible combination is (1, 8) i.e. Shed 1 & Shed 8 are Purple and Yellow colored sheds, but in any order and it is shown below,

| | | | | | |
|--------------------|---------------|--------|---------------|-------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | | Grey | Purple/Yellow | | |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | | | |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Brown colored shed is in Row-2.

There are two sheds between the only highest valued shed and Brown colored shed.

Grey and Green colored sheds are in different rows.

Total value of Green and Grey colored sheds are same.

Total value of Shed 4 is Rs.9.6 lakh, which is more than only the total value of Shed 6.

Inferences:

From above statements,

Brown colored shed is in Row-2 i.e. Shed 6 or Shed-9 or Shed 10 may be Brown colored

→ If Shed 10 is Brown colored and then Shed 7 (Grey colored) becomes only highest valued shed (using ref point-2), which is not possible since total value of Green and Grey colored sheds are same.

→ If Shed 9 is Brown colored and then Shed 6 becomes only highest valued shed (using ref point-2), which is not possible since total value of Shed 6 is less than Rs.9.6 lakh.

Therefore Shed 6 is Brown colored shed and Shed 9 becomes only highest valued shed (using ref point-2)

We know Shed 7 is the Grey colored and it is Row-2. Therefore Green colored shed must be in Row-1 (using ref

point-3) i.e. Shed 3 or Shed 4 or Shed 5 may be Green colored.

→ If Shed 4 is Green colored and then its value is Rs.9.6 lakh. Also the total value of Grey colored shed is Rs.9.6 lakh (using ref point-4). This violates the 5th reference point. Hence this is not possible.

Therefore Green colored shed is either Shed 3 or Shed 5. Thus we have 2 cases as shown,

| Case-1 [Shed-3→ Green] | | | | | |
|------------------------|---------------|--------|---------------|---------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | | |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| | | | | | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Green | | |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

| Case-2 [Shed-5→ Green] | | | | | |
|------------------------|---------------|--------|---------------|---------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | | |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| | | | | | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | | | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Silver colored shed is exactly in front of Black colored shed.

Blue and Orange colored sheds are in different rows.

Inferences:

From above statements,

Case-1: Shed 9 is Silver colored and Shed 4 is Black colored (using ref point-1, 1st possibility). Blue and Orange colored sheds are in different rows i.e. Shed 5 and Shed 10 are Blue and Orange colored, but in any order as shown

| Case-1 | | | | | |
|-------------|---------------|--------|---------------|---------------|-------------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Blue/Orange |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Green | Black | Orange/Blue |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

Case-1-A: Shed 10 is Silver colored and Shed 5 is Black colored (using ref point-1, 2nd possibility). Blue and Orange colored sheds are in different rows i.e. Shed 4 and Shed 9 are Blue and Orange colored, but in any order as shown

| Case-1-A | | | | | |
|-------------|---------------|--------|---------------|---------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Blue/Orange | Silver |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Green | Orange/Blue | Black |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

Case-2: Shed 9 is Silver colored and Shed 4 is Black colored (using ref point-1, only possibility). Blue and Orange colored sheds are in different rows i.e. Shed 3 and Shed 10 are Blue and Orange colored, but in any order as shown

| Case-2 | | | | | |
|-------------|---------------|--------|---------------|---------------|-------------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Blue/Orange |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Orange/Blue | Black | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Sum of the total value of the adjacent sheds of the Blue colored shed is Rs.20.4 lakh.

Total value of only one shed is more than Rs.18 lakh.

Total value of all vehicles in all the sheds together in Row-1 is Rs. 66 lakh.

Total value of Shed 4 is Rs.9.6 lakh, which is more than only the total value of Shed 6.

Inferences:

From above statements,

As per 1st reference point we can conclude that Blue colored shed can't be at any corners since sum of the total value of the adjacent sheds (i.e. immediate right & left) of Blue colored shed is Rs.20.4 lakh.

Case-1 gets eliminated since we can't satisfy the 1st reference point.

| Case-1 [Eliminated] | | | | | |
|---------------------|---------------|--------|---------------|---------------|-------------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Blue/Orange |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Green | Black | Orange/Blue |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

Case-1-A, if Shed 9 is Blue colored and then sum of the total value of the adjacent sheds (Shed 8 & Shed 10) of the Blue colored shed is Rs.20.4 lakh.

We know the total value of Shed-8 is Rs.16.8 lakh and then the total value of Shed 10 is 3.6 lakh (Rs.20.4 lakh - Rs.16.8 lakh = Rs.3.6 lakh), which is not possible since total value of Shed 4 is Rs.9.6 lakh, which is more than only the total value of Shed 6.

If Shed 4 is Blue colored and then sum of the total value of the adjacent sheds (Shed 3 & Shed 5) of the Blue colored shed is Rs.20.4 lakh.

Given, total value of all vehicles in all the sheds together in Row-1 is Rs. 66 lakh.

| Sheds in Row-1 & their total values |
|---|
| Total value of Shed 1 is Rs.16.8 lakh |
| Total value of Shed 4 is Rs.9.6 lakh |
| Sum of the total value of Shed 3 & Shed 5 is Rs.20.4 lakh |
| Therefore the total value of Shed 2 is 19.2 lakh → (Rs.66 lakh - (Rs.16.8 lakh + Rs.9.6 lakh + Rs.20.4 lakh)) → Rs.66 lakh - Rs.46.8 lakh → Rs.19.2 lakh |

Now the total value of Shed 2 is 19.2 lakh, which is not possible since total value of only one shed is more than Rs.18 lakh and we know only highest valued shed is Shed 9 (in all above 3 cases).

Thus Case-1-A gets eliminated since we can't satisfy the Blue colored shed either at Shed 4 or at Shed 9.

| Case-1-A [Eliminated] | | | | | |
|-----------------------|---------------|--------|---------------|---------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Blue/Orange | Silver |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Green | Orange/Blue | Black |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

Case-2: As per 1st reference point we can conclude that Blue colored shed can't be at any corners. Therefore Shed 10 is Orange colored and Shed 3 is Blue colored (only possibility)

Given, Sum of the total value of the adjacent sheds (i.e. Shed 2 & Shed 4) of the Blue colored shed is Rs.20.4 lakh.

We know the total value of Shed-4 is Rs.9.6 lakh and then the total value of Shed 2 is 10.8 lakh (Rs.20.4 lakh - Rs.9.6 lakh = Rs.10.8 lakh) as shown,

Note: 2nd and 3rd reference points can be solved based on other statements

| Case-2 | | | | | |
|--------------------|---------------|--------------|---------------|---------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Orange |
| Vehicles | | | | | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | Rs.10.8 lakh | | Rs.9.6 lakh | |
| Vehicles | | | | | |
| Color | Yellow/Purple | White | Blue | Black | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

Note: Only case-2 is left to solve further.

References:

Each shed has at least 1 bike and 1 car.

Total number of vehicles in Shed 4 is three.

Cost of each car is Rs.3.6 lakh and cost of each bike is Rs.2.4 lakh.

Number of bikes in White colored shed is 1 more than the number of cars in Shed 4.

Number of bikes in Silver colored shed is 2 more than the number of bikes in White colored shed.

Inferences:

From above statements,

Let Bike stands for B, Car stands for C and Vehicles stands for V

By using 1st and 2nd reference point, it is clear that Shed 4 has either (1 Car & 2 Bikes) or (2 Cars & 1 Bike) i.e. Total number of vehicles in Shed 4 is 3.

By using 3rd reference point Shed 4 calculation is shown below in table

| Shed 4 Calculation | |
|---|---|
| If Shed 4 has (1 Car & 2 Bikes) | If Shed 4 has (2 Cars & 1 Bike) |
| 1 Car=Rs.3.6 lakh | 2 Cars=2*Rs.3.6 lakh=Rs.7.2 lakh |
| 2 Bikes=2*Rs.2.4 lakh =Rs.4.8 lakh | 1 Bike=Rs.2.4 lakh |
| Total value of Shed 4 is Rs.8.4 lakh (not possible) | Total value of Shed 4 is Rs.9.6 lakh (given) |

By using Shed 4 calculation we can conclude that Shed 4 has 2 Cars and 1 Bike.

Given, Number of bikes in White colored shed = 1 + number of cars in Shed 4.

We know number of cars in Shed 4 is 2.

Therefore Number of bikes in White colored shed=3 (1+2=3 bikes) i.e. Shed 2

| Shed 2 Calculation |
|---|
| Total value of Shed 2 (White)=Rs.10.8 lakh |
| Number of bikes in Shed 2=3 bikes |
| Cost of all 3 bikes in Shed 2=3*Rs.2.4 lakh=Rs. 7.2 lakh |
| Cost of all cars in Shed 2=Rs.10.8 lakh-Rs.7.2 lakh=Rs.3.6 lakh |
| Cost of 1 car =Rs.3.6 lakh |
| Thus number of cars in Shed 2=1 |

Given, Number of bikes in Silver colored shed = 2 +number of bikes in White colored shed

Therefore Number of bikes in Silver colored shed=5 (2+3=5 bikes)

By using all above information we get the following case-2 as shown,

| Case-2 | | | | | |
|-------------|---------------|--------------|---------------|---------------|---------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Orange |
| Vehicles | | | | +5B | |
| Total Value | <Rs.9.6 lakh | | Rs.16.8 lakh | Highest value | |
| Total Value | Rs.16.8 lakh | Rs.10.8 lakh | | Rs.9.6 lakh | |
| Vehicles | | 1C+3B=4V | | 2C+1B=3V | |
| Color | Yellow/Purple | White | Blue | Black | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Average number of vehicles in White colored shed is equal to number of cars in Silver colored shed.

Total value of Orange colored shed is Rs.7.2 lakh less than Silver colored shed.

Shed 10 has equal number of cars and bikes.

Total value of Brown colored shed is half of the total value of the Orange colored shed.

Inferences:

From above statements,

We know White colored (Shed 2) shed has 4 vehicles and its average is 2 ($4/2=2$ vehicles)

Therefore number of cars in Silver colored shed is 2 (using ref point-1) i.e. Shed 9

| Shed 9 Calculation |
|---|
| Number of bikes in Shed 9=5 bikes |
| Cost of all 5 bikes in Shed 9=5*Rs.2.4 lakh=Rs.12 lakh |
| Number of Cars in Shed 9=2 cars |
| Cost of all 2 cars in Shed 9=2*Rs.3.6 lakh=Rs.7.2 lakh |
| Total value of Shed 9 (Silver)=Rs.19.2 lakh (only highest value) |

Given, Total value of Orange colored shed = Total value Silver colored shed – Rs.7.2 lakh

Therefore Total value of Orange colored shed = Rs.12 lakh (Rs.19.2 lakh-Rs.7.2 lakh=Rs.12 lakh)

Given, Shed 10 has equal number of cars and bikes i.e. Orange colored.

| Shed 10 Calculation |
|--|
| Total value of Shed 10 (Orange)=Rs.12lakh |
| Number of bikes in Shed 10=X (assumption) |
| Number of cars in Shed 10=X (assumption) |
| Cost of each bike is Rs.2.4 lakh & Cost of each car is Rs.3.6 lakh |
| Therefore, $X*Rs.2.4\text{ lakh} + X*Rs.3.6\text{ lakh}=Rs.12\text{ lakh}$ |
| i.e. $Rs.6\text{ lakh}*X=Rs.12\text{ lakh} \rightarrow X=2$ (Rs.12 lakh/Rs.6 lakh=2) |
| Therefore, Number of bikes in Shed 10=2 |
| Number of cars in Shed 10=2 |

Given, Total value of Brown colored shed= $\frac{1}{2}$ *(total value of the Orange colored shed).

Therefore Total value of Brown colored shed is Rs.6 lakh (Rs.12 lakh/2=Rs.6 lakh) i.e. Shed 6

| Shed 6 Calculation | |
|--|-------------------------|
| Total value of Shed 6 (Brown)= | Rs.6 lakh |
| Cost of each bike is Rs.2.4 lakh & Cost of each car is Rs.3.6 lakh | |
| Each shed has at least 1 bike and 1 car | |
| So number of bikes in Shed 6= | 1 & cost is Rs.2.4 lakh |
| Also number of cars in Shed 6= | 1 & cost is Rs.3.6 lakh |

By using all above information we get the following case-2 as shown,

| Case-2 | | | | | |
|-------------|---------------|--------------|---------------|--------------|------------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Orange |
| Vehicles | $1C+1B=2V$ | | | $2C+5B=7V$ | $2C+2B=4V$ |
| Total Value | Rs.6 lakh | | Rs.16.8 lakh | Rs.19.2 lakh | Rs.12 lakh |
| Total Value | Rs.16.8 lakh | Rs.10.8 lakh | | Rs.9.6 lakh | |
| Vehicles | | $1C+3B=4V$ | | $2C+1B=3V$ | |
| Color | Yellow/Purple | White | Blue | Black | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Total value of Green colored shed is equal to the sum of the total value of Black and Brown colored sheds.

Total value of Green and Grey colored sheds are same.

Total value of all vehicles in all the sheds together in Row-1 is Rs. 66 lakh.

Number of cars in Blue colored shed is same as number of cars in Brown colored shed.

Inferences:

From above statements,

Given, Total value of Green colored shed= total value of Black colored shed + total value of Brown colored shed

We know total value of Brown colored shed (Shed 6) is Rs.6 lakh

We know total value of Black colored shed (Shed 4) is Rs.9.6 lakh

Therefore total value of Green colored shed=Rs.15.6 lakh (Rs.6 lakh+Rs.9.6 lakh=Rs.15.6 lakh) i.e. Shed 5

Also total value of Grey colored shed is Rs.15.6 lakh (using ref-point-2) i.e. Shed 7

Given, total value of all vehicles in all the sheds together in Row-1 is Rs. 66 lakh.

| Sheds in Row-1 & their total values |
|--|
| Total value of Shed 1 is Rs.16.8 lakh |
| Total value of Shed 2 is Rs.10.8 lakh |
| Total value of Shed 4 is Rs.9.6 lakh |
| Total value of Shed 5 is Rs.15.6 lakh |
| Therefore the total value of Shed 3 is 13.2 lakh \rightarrow (Rs.66 lakh - (Rs.16.8 lakh + Rs.10.8 lakh + Rs.9.6 lakh + Rs.15.6 lakh)) \rightarrow Rs.66 lakh - Rs.52.8 lakh \rightarrow Rs.13.2 lakh |

Now the total value of Blue colored shed is Rs.13.2 lakh i.e. Shed 3

Given, Number of cars in Blue colored shed is same as number of cars in Brown colored shed.

We know number of cars in Brown colored shed is 1. Therefore number of cars in Blue colored shed is also 1.

| Shed 3 Calculation |
|--|
| Total value of Shed 3 (Blue)=Rs.13.2 lakh |
| Number of cars in Shed 3=1 & cost is Rs.3.6 lakh |
| Cost of all bikes in Shed 3=Rs.13.2 lakh - Rs.3.6 lakh=Rs.9.6 lakh |
| Cost of each bike is Rs.2.4 lakh |
| Number of bikes in Shed 3=Rs.9.6 lakh / Rs.2.4 lakh=4 |

By using all above information we get the following case-2 as shown,

| Case-2 | | | | | |
|-------------|---------------|--------------|---------------|--------------|--------------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple/Yellow | Silver | Orange |
| Vehicles | 1C+1B=2V | Rs.15.6 lakh | | 2C+5B=7V | 2C+2B=4V |
| Total Value | Rs.6 lakh | | Rs.16.8 lakh | Rs.19.2 lakh | Rs.12 lakh |
| Total Value | Rs.16.8 lakh | Rs.10.8 lakh | Rs.13.2 lakh | Rs.9.6 lakh | Rs.15.6 lakh |
| Vehicles | | 1C+3B=4V | 1C+4B=5V | 2C+1B=3V | |
| Color | Yellow/Purple | White | Blue | Black | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |

References:

Number of bikes in Yellow and Blue colored sheds are same.

Total number of cars in Green and Yellow colored sheds together is equal to 5.

Number of bikes in Grey colored shed is equal to number of cars in Yellow colored shed.

Total number of cars in all the sheds together in Row-2 is 12.

Inferences:

From above statements,

Number of bikes in Blue colored shed is 4. **Therefore number of bikes in Yellow colored shed is also 4** (using ref point-1)

We know Total value of Yellow colored shed is Rs.16.8 lakh

| Yellow colored shed Calculation (Shed 1 or Shed 8) |
|--|
| Total value of Yellow colored shed=Rs.16.8 lakh |
| Number of bikes in Yellow colored shed=4 |
| Cost of all 4 bikes in Yellow colored shed=4*Rs.2.4 lakh= Rs.9.6 lakh |
| Cost of all cars in Yellow colored shed= Rs.16.8 lakh- Rs.9.6 lakh=Rs.7.2 lakh |
| Cost of each car is Rs.3.6 lakh |
| Number of cars in Yellow colored shed=Rs.7.2 lakh/Rs.3.6 lakh=2 |

Given, Total number of cars in Green and Yellow colored sheds together is equal to 5.

Therefore total number of cars in Green colored shed is 3 (5-2=3 cars)

| Shed 5 Calculation |
|---|
| Total value of Shed 5 (Green)=Rs.15.6 lakh |
| Number of cars in Shed 5=3 |
| Cost of all 3 cars in Shed 5=3*Rs.3.6 lakh=Rs.10.8 lakh |
| Cost of all bikes in Shed 5=Rs.15.6 lakh-Rs.10.8 lakh=Rs.4.8 lakh |
| Cost of each bike is Rs.2.4 lakh |
| Number of bikes in Shed 5=Rs.4.8 lakh/Rs.2.4 lakh=2 |

Given, Number of bikes in Grey colored shed is equal to number of cars in Yellow colored shed. We know **number of cars in Yellow colored shed is 2. Therefore number of bikes in Grey colored shed is also 2.**

| Shed 7 Calculation |
|--|
| Total value of Shed 7 (Grey)=Rs.15.6 lakh |
| Number of bikes in Shed 7=2 |
| Cost of all 2 bikes in Shed 7=2*Rs.2.4 lakh=Rs.4.8 lakh |
| Cost of all cars in Shed 7=Rs.15.6 lakh-Rs.4.8 lakh=Rs.10.8 lakh |
| Cost of each car is Rs.3.6 lakh |
| Number of cars in Shed 7=Rs.10.8 lakh/Rs.3.6 lakh=3 |

Given, Total number of cars in all the sheds together in Row-2 is 12.

| Sheds in Row-2& their number of cars |
|---|
| Number of cars in Shed 6=1 |
| Number of cars in Shed 7=3 |
| Number of cars in Shed 9=2 |
| Number of cars in Shed 10=2 |
| Therefore the total number of cars in Shed 8 is 4 $\rightarrow (12-(1+3+2+2))$ $\rightarrow 12-8$ $\rightarrow 4$ cars i.e. number of cars in Shed 8 |

As we know number of cars in Yellow colored shed is 2. Therefore we can conclude that Shed 8 is Purple colored and it has 4 cars & Shed 1 is Yellow colored and it has 2 cars and 4 bikes

| Shed 8 Calculation |
|---|
| Total value of Shed 8 (Purple)=Rs.16.8 lakh |
| Number of cars in Shed 8=4 |
| Cost of all 4 cars in Shed 8=4*Rs.3.6 lakh=Rs.14.4 lakh |
| Cost of all bikes in Shed 8=Rs.16.8 lakh-Rs.14.4 lakh=Rs.2.4 lakh |
| Cost of each bike is Rs.2.4 lakh |
| Number of bikes in Shed 8=Rs.2.4 lakh/Rs.2.4 lakh=1 |

All the given conditions and statements get satisfied and we get the completed arrangement as shown below,

| Case-2 | | | | | |
|--------------------|--------------|--------------|--------------|--------------|--------------|
| Row-2↑ | Shed-6 | Shed-7 | Shed-8 | Shed-9 | Shed-10 |
| Color | Brown | Grey | Purple | Silver | Orange |
| Vehicles | 1C+1B=2V | 3C+2B=5V | 4C+1B=5V | 2C+5B=7V | 2C+2B=4V |
| Total Value | Rs.6 lakh | Rs.15.6 lakh | Rs.16.8 lakh | Rs.19.2 lakh | Rs.12 lakh |
| Total Value | Rs.16.8 lakh | Rs.10.8 lakh | Rs.13.2 lakh | Rs.9.6 lakh | Rs.15.6 lakh |
| Vehicles | 2C+4B=6V | 1C+3B=4V | 1C+4B=5V | 2C+1B=3V | 3C+2B=5V |
| Color | Yellow | White | Blue | Black | Green |
| Row-1↑ | Shed-1 | Shed-2 | Shed-3 | Shed-4 | Shed-5 |



Explanations:

1. Following the common explanation, we get **“Four”**.

The total number of cars parked in Purple colored shed is 4

Hence, option D is correct.

2. Following the common explanation, we get **“Fourth to the left”**.

Yellow colored shed is 4th to the left of Green colored shed

Hence, option C is correct.

3. Following the common explanation, we get **“Nine”**.

Shed-6 (Brown) has 1 bike, Shed 10 (Orange) has 2 bikes, Shed-1 (Yellow) has 4 bikes & Shed 5 (Green) has 2 bikes

$$\text{Sum} = 1 + 2 + 4 + 2 = 9$$

Hence, option C is correct.

4. Following the common explanation, we get **“Black”**.

Relation: Brown shed is opposite to Yellow colored shed, which has 6 vehicles

Orange colored shed is opposite to Green colored shed, which has 5 vehicles

Similarly, Black colored shed is opposite to Silver colored shed, which has 7 vehicles

Hence, option B is correct.

5. Following the common explanation, we get **“Total value of the shed is Rs.13.2 lakh i.e. Blue colored shed, which is not at any extreme ends”**.

Remaining 4 sheds are at extreme ends.

Hence, option B is correct.



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