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INEQUALITIES QUIZ 4

Directions: Study the following information carefully and answer the question given below.

'P % Q' means 'P is not smaller than Q.'

'P * Q' means 'P is neither greater than nor equal to Q.'

'P δ Q' means 'P is neither smaller than nor equal to Q.'

'P \$ Q' means 'P is neither greater than nor smaller than Q.'

'P © Q' means 'P is not greater than Q.'

(1). Statements: D \$ T, T % M, M * J

Conclusions: I. J δ D II. M © D

- A. if only conclusion I is true
- B. if only conclusion II is true
- C. if either conclusion I or II is true
- D. if neither conclusion I nor II is true
- E. if both conclusions I and II are true

(2). Statements: 8 * K, K \$ N, N % R

Conclusions: I. R \$ K II. R * K

- A. if only conclusion I is true
- B. if only conclusion II is true
- C. if either conclusion I or II is true
- D. if neither conclusion I nor II is true
- E. if both conclusions I and II are true

(3). **Statements:** $H \% F, F * W, W \$ E$
Conclusions: I. $E \delta F$ II. $H \delta W$

- A. if only conclusion I is true
- B. if only conclusion II is true
- C. if either conclusion I or II is true
- D. if neither conclusion I nor II is true
- E. if both conclusions I and II are true

(4). **Statements:** $Z \delta D, D \textcircled{C} K, K \delta M$
Conclusions: I. $M * D$ II. $Z \delta K$

- A. if only conclusion I is true
- B. if only conclusion II is true
- C. if either conclusion I or II is true
- D. if neither conclusion I nor II is true
- E. if both conclusions I and II are true

(5). **Statements:** $W \textcircled{C} B, N \delta B, N \textcircled{C} F$
Conclusions: I. $F \delta B$ II. $W * N$

- A. if only conclusion I is true
- B. if only conclusion II is true
- C. if either conclusion I or II is true
- D. if neither conclusion I nor II is true
- E. if both conclusions I and II are true

Correct answers:

1	2	3	4	5
B	C	A	D	E

Explanations:

(1).

As per the information given,

1. $D \text{ \$ } T$ means $D = T$
2. $T \text{ \% } M$ means $T \geq M$
3. $M \text{ * } J$ means $M < J$

So, the final equation will be,

$$D = T \geq M < J$$

Now, the Conclusion I. $J \text{ \delta } D$ means $J > D$
the Conclusion II. $M \text{ \textcircled{<}} D$ means $M \leq D$

Let's check the Conclusions now,

Conclusion I:

$$\begin{array}{c} \leftarrow \text{From J to D} \\ D = T \geq M < J \\ \hline \text{Can't be compared} \end{array}$$

Conclusion II:

$$\begin{array}{c} \leftarrow \text{From M to D} \\ \therefore T = D \\ \hline D = T \geq M < J \\ \hline \therefore M \leq D \end{array}$$

Hence, only Conclusion II is true

(2).

As per the information given,

1. $8 * K$ means $8 < K$
2. $K \$ N$ means $K = N$
3. $N \% R$ means $N \geq R$

So, the final equation will be,

$$8 < K = N \geq R$$

Now,

the Conclusion I. $R \$ K$ means $R = K$

the Conclusion II. $R * K$ means $R < K$

Let's check the Conclusions now,

$$\begin{array}{c} \text{From R to K} \\ \leftarrow \\ \therefore N = K \\ \underbrace{\hspace{1.5cm}} \\ 8 < K = N \geq R \\ \underbrace{\hspace{1.5cm}} \\ \therefore \text{Either } R < K \\ \text{Or } R = K \end{array}$$

It's clear from the above image that either Conclusion I or Conclusion II follows.

(3).

As per the information given,

1. $H \% F$ means $H \geq F$
2. $F * W$ means $F < W$
3. $W \$ E$ means $W = E$

So, the final equation will be,

$$H \geq F < W = E$$

Now, the Conclusion I. $E \delta F$ means $E > F$
the Conclusion II. $H \delta W$ means $H > W$

Let's check the Conclusions now,

Conclusion I:

$$\begin{array}{c} \text{From E to F} \\ \leftarrow \\ \therefore E = W \\ \text{H} \geq \text{F} < \text{W} = \text{E} \\ \leftarrow \\ \therefore E > F \end{array}$$

Conclusion II:



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$$\begin{array}{c} \text{From H to W} \\ \rightarrow \\ \text{H} \geq \text{F} < \text{W} = \text{E} \\ \leftarrow \\ \text{Can't be compared} \end{array}$$

Hence, Only Conclusion I is true.

(4).

As per the information given,

1. $Z \delta D$ means $Z > D$
2. $D \odot K$ means $D \leq K$
3. $K \delta M$ means $K > M$

So, the final equation will be,

$$Z > D \leq K > M$$

Now, the Conclusion I. $M * D$ means $M < D$
the Conclusion II. $Z \delta K$ means $Z > K$

Let's check the Conclusions now,

Conclusion I:

$$Z > D \leq K > M$$

From M to D
←
Can't be compared

Conclusion II:

$$Z > D \leq K > M$$

From Z to K
→
Can't be compared

Hence, neither Conclusion I nor II is true.

(5).

As per the information given,

1. $W \odot B$ means $W \leq B$
2. $N \delta B$ means $N > B$
3. $N \odot F$ means $N \leq F$

So, the final equation will be,

$$W \leq B < N \leq F$$

Now, the Conclusion I. $F \delta B$ means $F > B$
the Conclusion II. $W * N$ means $W < N$

Let's check the Conclusions now,

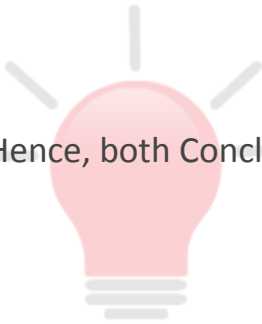
Conclusion I:

$$\begin{array}{c} \text{From F to B} \\ \leftarrow \\ W \leq B < N \leq F \\ \hline \text{Common sign is } > \\ \therefore F > B \end{array}$$

Conclusion II:

$$\begin{array}{c} \text{From W to N} \\ \xrightarrow{\hspace{1cm}} \\ W \leq B < N \leq F \\ \hline \text{Common sign is } < \\ \therefore W < N \end{array}$$

Hence, both Conclusions I and II are true.



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