

## Reasoning Inequality Questions and Answers

**Directions (Q1 - Q5):** In each of the given questions, one statement has been given followed by two conclusions. Find which of the given conclusions is true

**Q 1.**

**Statement:**  $A > F \leq C = D < E$

**Conclusion I:**  $A > E$

**Conclusion II:**  $F < E$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (2) Only conclusion II is true**

**Q 2.**

**Statement:**  $P > Q, X \leq R < S, S > P$

**Conclusion I:**  $P \leq R$

**Conclusion II:**  $X > S$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Solution:**

$X \leq R < S > P > Q$

**Q 3.**

**Statement:**  $V \leq X > Y \leq U = Z > O$

**Conclusion I:**  $Y < Z$

**Conclusion II:**  $Y = Z$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (5) Either conclusion I or II is true**

**Q 4.**

**Statement:**  $C = B \geq A \leq D = E$

**Conclusion I:**  $C = X$

**Conclusion II:**  $C < D$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Q 5.**

**Statement:**  $L > M, M \leq O = N, L = Q < K$

**Conclusion I:**  $K > M$

**Conclusion II:**  $O \leq K$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (1) Only conclusion I is true**

**Directions (Q6 - Q10):** In the following questions, the symbols #, \*, %, @ and © are used with the following meaning:

$A \# B$ , means A is greater than B

$A * B$ , means A is smaller than B

$A \% B$ , means A is equal to B

$A @ B$ , means A is greater than equal to B

$A © B$ , means A is smaller than equal to B

**Q 6.**

**Statement:**  $S © P @ Q \# R$

**Conclusion I:**  $S @ R$

**Conclusion II:**  $R * P$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (2) Only conclusion II is true**

**Solution:**

$A \# B$ , means  $A > B$

$A * B$ , means  $A < B$

$A \% B$ , means  $A = B$

$A @ B$ , means  $A \geq B$

$A \odot B$ , means  $A \leq B$

Statement:  $S \leq P \geq Q > R$

Conclusion I:  $S \geq R$

Conclusion II:  $R < P$

**Q 7. Statement:  $X \# B * N @ I \odot H$**

**Conclusion I:  $X \# N$**

**Conclusion II:  $I \% X$**

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Solution:**

Statement:  $X > B < N \geq I \leq H$

Conclusion I:  $X > N$

Conclusion II:  $I = X$

**Q 8.**

**Statement:  $A \% R \odot U @ D \% G$**

**Conclusion I:  $A \% U$**

**Conclusion II:  $A * U$**

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (5) Either conclusion I or II is true**

**Solution:**

Statement:  $A = R \leq U \geq D = G$

Conclusion I:  $A = U$

Conclusion II:  $A < U$

**Q 9.**

**Statement:  $H \% J * D * K \# I \% F$**

**Conclusion I:  $J * K$**

**Conclusion II:**  $D = F$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (1) Only conclusion I is true**

**Solution:**

Statement:  $H = J < D < K > I = F$

Conclusion I:  $J < K$

Conclusion II:  $D = F$

**Q 10.**

**Statement:**  $L \# H \% J \% B @ D \# F$

**Conclusion I:**  $H \% F$

**Conclusion II:**  $L \# D$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (2) Only conclusion II is true**

**Solution:**

Statement:  $L > H = J = B \geq D > F$

Conclusion I:  $H = F$

Conclusion II:  $L > D$

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**Q 11.**

**Statement:**  $K < H > G, G \leq N, N = U$

**Conclusion I:**  $K = U$

**Conclusion II:**  $H > N$

1. Only conclusion I is true
2. Only conclusion II is true

3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Q 12.**

**Statement:  $G \leq S, S > R < K, K \geq C, L = G$**

**Conclusion I:  $G \leq R$**

**Conclusion II:  $L \geq K$**

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Direction (Q13 - Q15):** Based on the information given below, answer the following questions:

A @ B, means B is greater than A

A & B, means B is smaller than A

A \$ B, means B is equal to A

A # B, means B is greater than equal to A

A % B, means B is smaller than or equal to A

**Q 13.**

**Statement:  $P @ Q \$ R \% S \# T \% U$**

**Conclusion I:  $P \% U$**

**Conclusion II:  $R @ T$**

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Solution:**

A @ B, means  $A < B$

A & B, means  $A > B$

A \$ B, means  $A = B$

A # B, means  $A \leq B$

A % B, means  $A \geq B$

Statement:  $P < Q = R \geq @ S \leq T \geq U$

Conclusion I:  $P \geq U$

Conclusion II:  $R < T$

**Q 14.**

**Statement:**  $A @ B \$ C \& D @ E \# F$

**Conclusion I:**  $F @ C$

**Conclusion II:**  $A \# D$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (4) Neither conclusion I nor II is true**

**Solution:**

Statement:  $A < B = C > D < E \leq F$

Conclusion I:  $F < C$

Conclusion II:  $A \leq D$

**Q 15.**

**Statement:**  $S \% U @ T \& V \$ W \# R$

**Conclusion I:**  $U \& R$

**Conclusion II:**  $T \& W$

1. Only conclusion I is true
2. Only conclusion II is true
3. Both conclusion I and II are true
4. Neither conclusion I nor II is true
5. Either conclusion I or II is true

**Answer: (2) Only conclusion II is true**

**Solution:**

Statement:  $S \geq U < T > V = W \leq R$

Conclusion I:  $U > R$

Conclusion II:  $T > W$