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INEQUALITIES QUIZ 3

Directions: Study the following question carefully and choose the right answer:

1. Which of the following explanation is false, if the given expression is true?

$$E = F > G \leq H = I$$

1) $E > G$ 2) $H \geq G$ 3) $H \geq F$ 4) $I \geq G$

A. Only 1

B. Only 2

C. Only 3 & 4

D. Only 3

E. None of these

$$2. L \leq O > V = E \geq S$$

Which of the following ones is correct?

1) $L \leq V$ 2) $O = E$ 3) $O > S$ 4) $S \geq L$

A. Only 1

B. Only 2

C. Only 3

D. Only 3 & 4

E. None of these

$$3. B > E \leq A = T \geq S$$

Which of the following ones is correct?

1) $B > S$ 2) $E = T$ 3) $E < T$ 4) $E \leq S$

A. Only 1

B. Either 2 or 3

C. Only 2

D. Either 3 or 4

E. None of these

4. $M = O < N = K \leq S$

Which of the following ones is correct?

1) $M = S$ 2) $O < S$ 3) $N > S$ 4) $O = K$

A. Only 1

B. Only 2

C. Only 2 & 3

D. Either 3 or 4

E. None of these

5. $C \geq H = A > T > S$

Which of the following ones is correct?

1) $S < C$ 2) $T = C$ 3) $H < T$ 4) $H \leq S$

A. Only 1

B. Only 2

C. Either 1 or 2

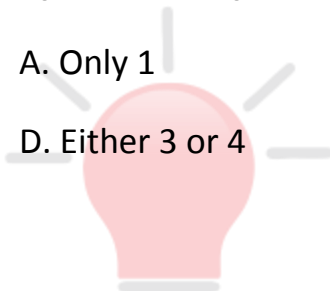
D. Only 4

E. None of these

6. $S \geq T = U > D \leq Y$

Which of the following ones is correct?

1) $Y > U$ 2) $S = D$ 3) $S = U$ 4) $S > U$



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A. Only 1

B. Only 2

C. Either 3 or 4

D. Only 4

E. None of these

7. $G \leq R > E = A \leq T$

Which of the following ones is correct?

1) $R > T$ 2) $R = A$ 3) $G \leq T$ 4) $E \leq T$

A. Only 1

B. Only 2

C. Only 3 & 4

D. Only 4

E. None of these

8. $S = T \leq R < E = A > M$

Which of the following ones is correct?

1) $S > M$ 2) $A > S$ 3) $A < T$ 4) $M > R$

A. Only 1

B. Only 2

C. Only 2 & 4

D. Only 4

E. None of these

9. $D > R \geq E = A \leq M$

Which of the following ones is correct?

1) $D > M$ 2) $A < D$ 3) $E = D$ 4) $M < R$

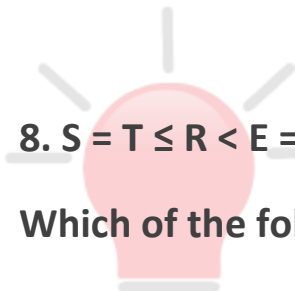
A. Only 1

B. Only 2

C. Only 2 & 3

D. Either 1 or 4

E. None of these



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10. Which of the following expressions will be true, if the expression $R > O = A > S < T$ is definitely true?

A. $O > T$

B. $S < R$

C. $T > A$

D. $S = O$

E. $T < R$



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Correct answers:

1	2	3	4	5	6	7	8	9	10
D	C	B	B	A	C	D	B	B	B

Explanations:

1.

$$E = F > G \leq H = I$$

We can't compare H and F because between H & F opposite symbol used. We know that the inequalities does not works between opposite symbol.

2.

$$L \leq O > V = E \geq S$$

We can compare O and S. which shows that the option 3rd is correct because the common symbol between O and S is '>'.

3.

$$B > E \leq A = T \geq S$$

We can compare E and T but either 2 or 3 equation is correct.

4.

$$M = O < N = K \leq S$$

We can compare O & S. which shows that the option 2 is correct because the common symbol between O & S is '<'.

5.

$$C \geq H = A > T > S$$

We can compare S & C. which shows that the option first one is correct because the common symbol between S & C is '<'.

6.

$$S \geq T = U > D \leq Y$$

We can compare S & U but either 3 or 4 equation is correct.

7.

$$G \leq R > E = A \leq T$$

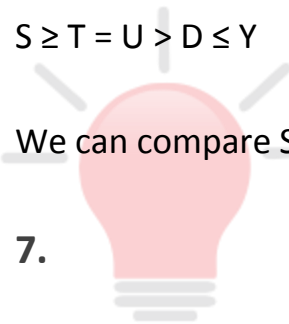
We can compare E & T. which shows that the option D is correct because the common symbol between E & T is '<'.

8.

$$S = T \leq R < E = A > M$$

We can compare A & S which shows that the option 2 is correct because the symbol between A & S is '>'.

9.



$$D > R \geq E = A \leq M$$

We can compare A & D which shows that the option 2 is correct because the common symbol between D & A is '<'.

10.

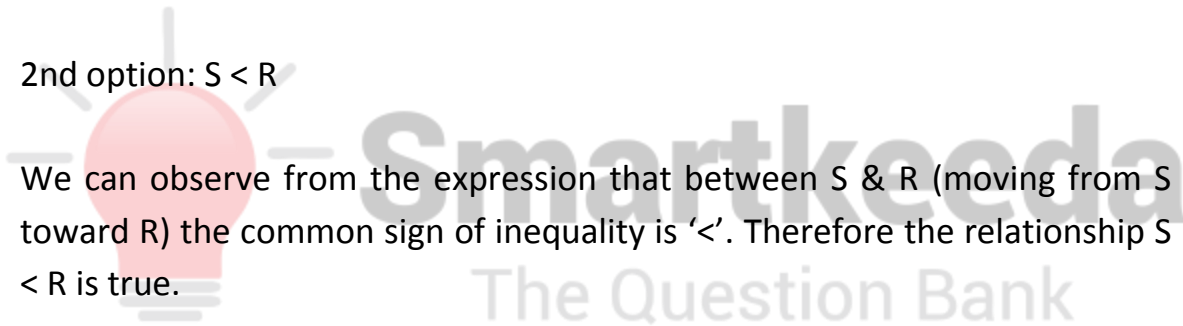
1st option: $O > T$

We can observe from the equation that the inequality signs between O & T are opposite and hence we can't find a definite relationship between these two.

2nd option: $S < R$

We can observe from the expression that between S & R (moving from S toward R) the common sign of inequality is '<'. Therefore the relationship $S < R$ is true.

We now need not check other options further.





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