



Logic Games

If Then Inference Drills

I. Easy

1. If A then C

If B then not C

2. If E then not D

If D then F

If not D then G

3. If H then I

If not K then not H

If not J then H

If L then J



Logic Games

If Then Inference Drills

I. Easy - Answer Key

1. If A then C
If B then not C

$$A \rightarrow C$$

$$B \rightarrow \cancel{C} \quad C \rightarrow \cancel{B}$$

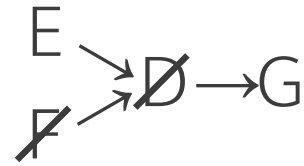
$$A \rightarrow C \rightarrow \cancel{B}$$

2. If E then not D
If D then F
If not D then G

$$E \rightarrow \cancel{D}$$

$$D \rightarrow F \quad \cancel{F} \rightarrow \cancel{D}$$

$$\cancel{D} \rightarrow G$$



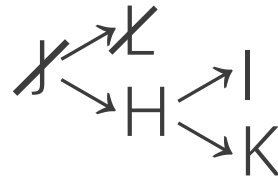
3. If H then I
If not K then not H
If not J then H
If L then J

$$H \rightarrow I$$

$$\cancel{K} \rightarrow \cancel{H} \quad H \rightarrow K$$

$$\cancel{J} \rightarrow H$$

$$L \rightarrow J \quad \cancel{J} \rightarrow \cancel{L}$$





Logic Games

If Then Inference Drills

II. Medium

4. If M then not Q

If not P then R

If M then not N

If not O then Q

If P then not Q

5. If S then not T

If not X then not S

If not V then not W

If V then not S

If Y then S

If not Z then T



Logic Games

If Then Inference Drills

II. Medium - Answer Key

4. If M then not Q

$$M \rightarrow \cancel{Q}$$

If not P then R

$$\cancel{P} \rightarrow R \quad \cancel{R} \rightarrow P$$

If M then not N

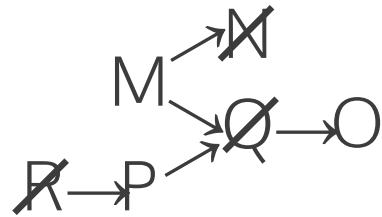
$$M \rightarrow \cancel{N}$$

If not O then Q

$$\cancel{O} \rightarrow Q \quad \cancel{Q} \rightarrow O$$

If P then not Q

$$P \rightarrow \cancel{Q}$$



5. If S then not T

$$S \rightarrow \cancel{T}$$

If not X then not S

$$\cancel{X} \rightarrow \cancel{S} \quad S \rightarrow X$$

If not V then not W

$$\cancel{V} \rightarrow \cancel{W}$$

If V then not S

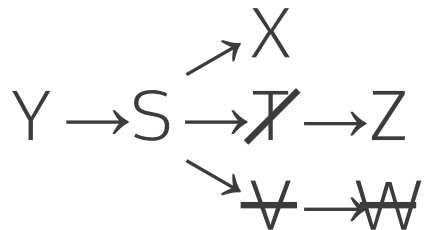
$$V \rightarrow \cancel{S} \quad S \rightarrow \cancel{V}$$

If Y then S

$$Y \rightarrow S$$

If not Z then T

$$\cancel{Z} \rightarrow T \quad \cancel{T} \rightarrow Z$$





Logic Games

If Then Inference Drills

III. Hard

6. If not A then E

If H then not C

If not F then not H

If A then I

If B then not I

If E then F

If D then not E

If I then not J

If not D then G

If not I then E

7. If not Q then not K

If R then not N

If not Z then K

If not S then not Z

If not W then V

If Q then not L

If Y then not W

If M then Z

If not M then not V

If T then not Q

If not X then not V

If Z then not P

If not O then N

If not K then R



Logic Games

If Then Inference Drills

III. Hard - Answer Key

6. If not A then E

$\cancel{A} \rightarrow E$

If E then F

$E \rightarrow F$

If H then not C

$H \rightarrow \cancel{C}$

If D then not E

$D \rightarrow \cancel{E}$

$E \rightarrow \cancel{D}$

If not F then not H

$\cancel{F} \rightarrow \cancel{H}$

$H \rightarrow F$

If I then not J

$I \rightarrow \cancel{J}$

$J \rightarrow \cancel{I}$

If A then I

$A \rightarrow I$

$\cancel{I} \rightarrow \cancel{A}$

If not D then G

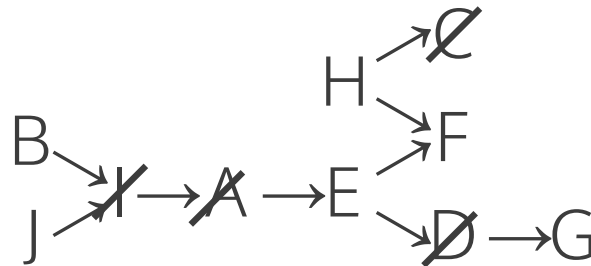
$\cancel{D} \rightarrow G$

If B then not I

$B \rightarrow \cancel{I}$

If not I then E

$\cancel{I} \rightarrow E$



7. If not Q then not K

$\cancel{Q} \rightarrow \cancel{K}$

If M then Z

$M \rightarrow Z$

If R then not N

$R \rightarrow \cancel{N}$

If not M then not V

$\cancel{M} \rightarrow \cancel{V}$

$V \rightarrow M$

If not Z then K

$\cancel{Z} \rightarrow K$

$K \rightarrow Z$

If T then not Q

$T \rightarrow \cancel{Q}$

If not S then not Z

$\cancel{S} \rightarrow \cancel{Z}$

$Z \rightarrow S$

If not X then not V

$\cancel{X} \rightarrow \cancel{V}$

$V \rightarrow X$

If not W then V

$\cancel{W} \rightarrow V$

If Z then not P

$Z \rightarrow \cancel{P}$

If Q then not L

$Q \rightarrow \cancel{L}$

$L \rightarrow \cancel{Q}$

If not O then N

$\cancel{O} \rightarrow N$

$\cancel{N} \rightarrow \cancel{O}$

If Y then not W

$Y \rightarrow \cancel{W}$

If not K then R

$\cancel{K} \rightarrow R$

