

Logic Puzzle 1: Weekend Workshop

Easy | 4 categories x 4 choices | unique answer on page 11

Four friends each completed a different project, chose a different drink, and started at a different time.

Person: Ava | Ben | Cleo | Diego
Project: birdhouse | kite | planter | stool
Drink: cocoa | lemonade | tea | water
Start: 9:00 AM | 10:00 AM | 11:00 AM | 12:00 PM

CLUES

- 1. Ava was scheduled before the water.
- 2. the birdhouse was scheduled before Diego.
- 3. Ava was scheduled immediately before Cleo.
- 4. Cleo was paired with the birdhouse.
- 5. Ben was scheduled for 11:00 AM.
- 6. the kite was scheduled before the water.
- 7. Ben was paired with the stool.
- 8. Ava was paired with the tea.
- 9. Ben was paired with the water.
- 10. Ava was scheduled immediately before the lemonade.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Project

	birdhouse	kite	planter	stool
Ava				
Ben				
Cleo				
Diego				

Person x Drink

	cocoa	lemonade	tea	water
Ava				
Ben				
Cleo				
Diego				

Person x Start

	9:00 AM	10:00 AM	11:00 AM	12:00 PM
Ava				
Ben				
Cleo				
Diego				

Project x Drink

	cocoa	lemonade	tea	water
birdhouse				
kite				
planter				
stool				

Project x Start

	9:00 AM	10:00 AM	11:00 AM	12:00 PM
birdhouse				
kite				
planter				
stool				

Drink x Start

	9:00 AM	10:00 AM	11:00 AM	12:00 PM
cocoa				
lemonade				
tea				
water				

Logic Puzzle 2: Book Club Arrival

Easy | 4 categories x 4 choices | unique answer on page 12

Four readers brought different genres, selected different snacks, and arrived at different times.

Person: Erin | Felix | Grace | Hugo
Genre: history | mystery | poetry | travel
Snack: cookie | fruit | nuts | popcorn
Arrival: 5:00 PM | 5:15 PM | 5:30 PM | 5:45 PM

CLUES

1. the travel was scheduled before the nuts.
2. Grace was scheduled before the mystery.
3. Grace was scheduled for 5:15 PM.
4. the history was scheduled immediately before the mystery.
5. Grace was paired with the history.
6. Felix was scheduled before the nuts.
7. Hugo was paired with the mystery.
8. Felix was paired with the popcorn.
9. Grace was paired with the nuts.
10. the mystery was paired with the cookie.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Genre

	history	mystery	poetry	travel
Erin				
Felix				
Grace				
Hugo				

Person x Snack

	cookie	fruit	nuts	popcorn
Erin				
Felix				
Grace				
Hugo				

Person x Arrival

	5:00 PM	5:15 PM	5:30 PM	5:45 PM
Erin				
Felix				
Grace				
Hugo				

Genre x Snack

	cookie	fruit	nuts	popcorn
history				
mystery				
poetry				
travel				

Genre x Arrival

	5:00 PM	5:15 PM	5:30 PM	5:45 PM
history				
mystery				
poetry				
travel				

Snack x Arrival

	5:00 PM	5:15 PM	5:30 PM	5:45 PM
cookie				
fruit				
nuts				
popcorn				

Logic Puzzle 3: Community Garden

Easy | 4 categories x 4 choices | unique answer on page 13

Four gardeners tended different plots, used different tools, and began at different times.

Person: Iris | Jonah | Kara | Luis
Plot: herbs | peppers | roses | tomatoes
Tool: hoe | rake | spade | trowel
Start: 8:00 AM | 8:30 AM | 9:00 AM | 9:30 AM

CLUES

- the herbs was scheduled before the hoe.
- Iris was scheduled before the tomatoes.
- the hoe was scheduled for 9:00 AM.
- Kara was scheduled for 9:30 AM.
- Jonah was scheduled for 9:00 AM.
- Iris was paired with the rake.
- Luis was paired with the spade.
- the herbs was scheduled before the spade.
- Luis was paired with the tomatoes.
- the tomatoes was scheduled immediately before the roses.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Plot

	herbs	peppers	roses	tomatoes
Iris				
Jonah				
Kara				
Luis				

Person x Tool

	hoe	rake	spade	trowel
Iris				
Jonah				
Kara				
Luis				

Person x Start

	8:00 AM	8:30 AM	9:00 AM	9:30 AM
Iris				
Jonah				
Kara				
Luis				

Plot x Tool

	hoe	rake	spade	trowel
herbs				
peppers				
roses				
tomatoes				

Plot x Start

	8:00 AM	8:30 AM	9:00 AM	9:30 AM
herbs				
peppers				
roses				
tomatoes				

Tool x Start

	8:00 AM	8:30 AM	9:00 AM	9:30 AM
hoe				
rake				
spade				
trowel				

Logic Puzzle 4: Cafe Orders

Medium | 4 categories x 4 choices | unique answer on page 14

Four customers ordered different meals and drinks, then collected them at different times.

Person: Maya | Noah | Olive | Peter

Meal: bagel | muffin | salad | soup

Drink: coffee | juice | milk | tea

Pickup: 11:30 AM | 11:45 AM | 12:00 PM | 12:15 PM

CLUES

1. the soup was scheduled before Peter.
2. Olive was scheduled immediately before Peter.
3. Maya was scheduled immediately before Noah.
4. Olive was scheduled immediately before the bagel.
5. the salad was scheduled immediately before the muffin.
6. Peter was scheduled before the salad.
7. the juice was scheduled immediately before the milk.
8. the coffee was scheduled immediately before the tea.
9. the soup was scheduled before the juice.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Meal

	bagel	muffin	salad	soup
Maya				
Noah				
Olive				
Peter				

Person x Drink

	coffee	juice	milk	tea
Maya				
Noah				
Olive				
Peter				

Person x Pickup

	11:30 AM	11:45 AM	12:00 PM	12:15 PM
Maya				
Noah				
Olive				
Peter				

Meal x Drink

	coffee	juice	milk	tea
bagel				
muffin				
salad				
soup				

Meal x Pickup

	11:30 AM	11:45 AM	12:00 PM	12:15 PM
bagel				
muffin				
salad				
soup				

Drink x Pickup

	11:30 AM	11:45 AM	12:00 PM	12:15 PM
coffee				
juice				
milk				
tea				

Logic Puzzle 5: Museum Tour

Medium | 4 categories x 4 choices | unique answer on page 15

Four visitors toured different galleries, bought different souvenirs, and entered at different times.

- Person:** Quinn | Rosa | Sam | Talia
- Gallery:** art | dinosaurs | oceans | space
- Souvenir:** map | notebook | postcard | poster
- Entry:** 1:00 PM | 1:20 PM | 1:40 PM | 2:00 PM

CLUES

1. Talia was scheduled before the art.
2. Talia was scheduled immediately before Rosa.
3. the oceans was scheduled for 1:00 PM.
4. the space was scheduled for 1:40 PM.
5. Rosa was scheduled immediately before Quinn.
6. Talia was scheduled immediately before the dinosaurs.
7. the postcard was scheduled immediately before the poster.
8. the map was scheduled immediately before the postcard.
9. the notebook was not scheduled for 1:00 PM.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Gallery

	art	dinosaurs	oceans	space
Quinn				
Rosa				
Sam				
Talia				

Person x Souvenir

	map	notebook	postcard	poster
Quinn				
Rosa				
Sam				
Talia				

Person x Entry

	1:00 PM	1:20 PM	1:40 PM	2:00 PM
Quinn				
Rosa				
Sam				
Talia				

Gallery x Souvenir

	map	notebook	postcard	poster
art				
dinosaurs				
oceans				
space				

Gallery x Entry

	1:00 PM	1:20 PM	1:40 PM	2:00 PM
art				
dinosaurs				
oceans				
space				

Souvenir x Entry

	1:00 PM	1:20 PM	1:40 PM	2:00 PM
map				
notebook				
postcard				
poster				

Logic Puzzle 6: Repair Day

Medium | 4 categories x 4 choices | unique answer on page 16

Four neighbors repaired different objects, used different tools, and began at different times.

Person: Uma | Victor | Willa | Xander
Object: bicycle | bookshelf | lamp | radio
Tool: pliers | saw | screwdriver | wrench
Start: 2:00 PM | 2:30 PM | 3:00 PM | 3:30 PM

CLUES

1. Willa was scheduled before the radio.
2. the lamp was scheduled immediately before the radio.
3. the bookshelf was scheduled immediately before the bicycle.
4. Xander was scheduled before the bicycle.
5. Willa was scheduled immediately before Uma.
6. the lamp was scheduled before the bookshelf.
7. the screwdriver was scheduled before the radio.
8. the pliers was scheduled immediately before the saw.
9. the bicycle was not paired with the saw.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Object

	bicycle	bookshelf	lamp	radio
Uma				
Victor				
Willa				
Xander				

Person x Tool

	pliers	saw	screwdriver	wrench
Uma				
Victor				
Willa				
Xander				

Person x Start

	2:00 PM	2:30 PM	3:00 PM	3:30 PM
Uma				
Victor				
Willa				
Xander				

Object x Tool

	pliers	saw	screwdriver	wrench
bicycle				
bookshelf				
lamp				
radio				

Object x Start

	2:00 PM	2:30 PM	3:00 PM	3:30 PM
bicycle				
bookshelf				
lamp				
radio				

Tool x Start

	2:00 PM	2:30 PM	3:00 PM	3:30 PM
pliers				
saw				
screwdriver				
wrench				

Logic Puzzle 7: Ferry Trip

Medium | 4 categories x 4 choices | unique answer on page 17

Four travelers headed to different destinations, carried different bags, and departed at different times.

Person: Yara | Zane | Amir | Bella
Destination: Bayport | Cliffside | Harborview | Lakeshore
Bag: backpack | basket | cooler | suitcase
Departure: 7:15 AM | 7:45 AM | 8:15 AM | 8:45 AM

CLUES

- the Cliffside was scheduled before the suitcase.
- the Cliffside was scheduled immediately before the Harborview.
- the cooler was scheduled immediately before the suitcase.
- the backpack was scheduled immediately before the basket.
- Bella was scheduled before the basket.
- Bella was scheduled immediately before the Harborview.
- Zane was scheduled immediately before Yara.
- the basket was scheduled before the suitcase.
- Zane was paired with the Lakeshore.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Destination		Bayport	Cliffside	Harborview	Lakeshore
Yara					
Zane					
Amir					
Bella					

Person x Bag		backpack	basket	cooler	suitcase
Yara					
Zane					
Amir					
Bella					

Person x Departure		7:15 AM	7:45 AM	8:15 AM	8:45 AM
Yara					
Zane					
Amir					
Bella					

Destination x Bag		backpack	basket	cooler	suitcase
Bayport					
Cliffside					
Harborview					
Lakeshore					

Destination x Departure		7:15 AM	7:45 AM	8:15 AM	8:45 AM
Bayport					
Cliffside					
Harborview					
Lakeshore					

Bag x Departure		7:15 AM	7:45 AM	8:15 AM	8:45 AM
backpack					
basket					
cooler					
suitcase					

Logic Puzzle 8: Makers Fair

Challenging | 4 categories x 4 choices | unique answer on page 18

Four makers presented different displays, earned different ribbon colors, and demonstrated at different times.

Person: Cora | Dylan | Elena | Farid
Display: clock | model bridge | robot | wind chime
Ribbon: blue | green | orange | purple
Demo: 10:10 AM | 10:30 AM | 10:50 AM | 11:10 AM

CLUES

1. Dylan was scheduled immediately before Elena.
2. the model bridge was scheduled before Farid.
3. the wind chime was scheduled before the orange.
4. the blue was scheduled for 10:30 AM.
5. Elena was scheduled immediately before the robot.
6. the clock was paired with the orange.
7. the wind chime was paired with the purple.
8. Farid was not paired with the green.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Display

	clock	model bridg	robot	wind chime
Cora				
Dylan				
Elena				
Farid				

Person x Ribbon

	blue	green	orange	purple
Cora				
Dylan				
Elena				
Farid				

Person x Demo

	10:10 AM	10:30 AM	10:50 AM	11:10 AM
Cora				
Dylan				
Elena				
Farid				

Display x Ribbon

	blue	green	orange	purple
clock				
model bridg				
robot				
wind chime				

Display x Demo

	10:10 AM	10:30 AM	10:50 AM	11:10 AM
clock				
model bridg				
robot				
wind chime				

Ribbon x Demo

	10:10 AM	10:30 AM	10:50 AM	11:10 AM
blue				
green				
orange				
purple				

Logic Puzzle 9: Nature Center

Challenging | 4 categories x 4 choices | unique answer on page 19

Four visitors walked different trails, recorded different sightings, and left at different times.

- Person:** Gia | Hector | Imani | Joel
Trail: cedar | marsh | pine | ridge
Sighting: fox | heron | owl | turtle
Finish: 3:00 PM | 3:20 PM | 3:40 PM | 4:00 PM

CLUES

- 1. the turtle was scheduled immediately before the fox.
- 2. the owl was scheduled immediately before the heron.
- 3. Imani was scheduled before the cedar.
- 4. the ridge was scheduled before the owl.
- 5. the cedar was scheduled before the marsh.
- 6. Imani was scheduled immediately before Hector.
- 7. Joel was scheduled immediately before the marsh.
- 8. the pine was scheduled for 3:20 PM.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Trail

	cedar	marsh	pine	ridge
Gia				
Hector				
Imani				
Joel				

Person x Sighting

	fox	heron	owl	turtle
Gia				
Hector				
Imani				
Joel				

Person x Finish

	3:00 PM	3:20 PM	3:40 PM	4:00 PM
Gia				
Hector				
Imani				
Joel				

Trail x Sighting

	fox	heron	owl	turtle
cedar				
marsh				
pine				
ridge				

Trail x Finish

	3:00 PM	3:20 PM	3:40 PM	4:00 PM
cedar				
marsh				
pine				
ridge				

Sighting x Finish

	3:00 PM	3:20 PM	3:40 PM	4:00 PM
fox				
heron				
owl				
turtle				

Logic Puzzle 10: Radio Schedule

Challenging | 4 categories x 4 choices | unique answer on page 20

Four hosts presented different segments, welcomed different guests, and went on air at different times.

- Person:** Keira | Leo | Mina | Owen
Segment: interview | news | quiz | weather
Guest: chef | coach | doctor | writer
Airtime: 1:00 PM | 1:30 PM | 2:00 PM | 2:30 PM

CLUES

- 1. the news was scheduled immediately before the interview.
- 2. the weather was scheduled immediately before the quiz.
- 3. Leo was scheduled before the coach.
- 4. the chef was scheduled before the weather.
- 5. the weather was paired with the writer.
- 6. Leo was scheduled immediately before Owen.
- 7. Owen was scheduled immediately before Mina.
- 8. Leo was scheduled immediately before the chef.

MARKING GRIDS - use X for impossible and O for confirmed

Person x Segment

	interview	news	quiz	weather
Keira				
Leo				
Mina				
Owen				

Person x Guest

	chef	coach	doctor	writer
Keira				
Leo				
Mina				
Owen				

Person x Airtime

	1:00 PM	1:30 PM	2:00 PM	2:30 PM
Keira				
Leo				
Mina				
Owen				

Segment x Guest

	chef	coach	doctor	writer
interview				
news				
quiz				
weather				

Segment x Airtime

	1:00 PM	1:30 PM	2:00 PM	2:30 PM
interview				
news				
quiz				
weather				

Guest x Airtime

	1:00 PM	1:30 PM	2:00 PM	2:30 PM
chef				
coach				
doctor				
writer				

Answer 1: Weekend Workshop

Complete matching table and uniqueness audit

Person	Project	Drink	Start
Ava	kite	tea	9:00 AM
Ben	stool	water	11:00 AM
Cleo	birdhouse	lemonade	10:00 AM
Diego	planter	cocoa	12:00 PM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 2,304 -> 792 -> 288 -> 108 -> 48 -> 18 -> 6 -> 2 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. Ava was scheduled before the water.
2. the birdhouse was scheduled before Diego.
3. Ava was scheduled immediately before Cleo.
4. Cleo was paired with the birdhouse.
5. Ben was scheduled for 11:00 AM.
6. the kite was scheduled before the water.
7. Ben was paired with the stool.
8. Ava was paired with the tea.
9. Ben was paired with the water.
10. Ava was scheduled immediately before the lemonade.

Answer 2: Book Club Arrival

Complete matching table and uniqueness audit

Person	Genre	Snack	Arrival
Erin	poetry	fruit	5:45 PM
Felix	travel	popcorn	5:00 PM
Grace	history	nuts	5:15 PM
Hugo	mystery	cookie	5:30 PM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 2,304 -> 792 -> 288 -> 108 -> 48 -> 18 -> 6 -> 2 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

- 1. the travel was scheduled before the nuts.
- 2. Grace was scheduled before the mystery.
- 3. Grace was scheduled for 5:15 PM.
- 4. the history was scheduled immediately before the mystery.
- 5. Grace was paired with the history.
- 6. Felix was scheduled before the nuts.
- 7. Hugo was paired with the mystery.
- 8. Felix was paired with the popcorn.
- 9. Grace was paired with the nuts.
- 10. the mystery was paired with the cookie.

Answer 3: Community Garden

Complete matching table and uniqueness audit

Person	Plot	Tool	Start
Iris	herbs	rake	8:00 AM
Jonah	roses	hoe	9:00 AM
Kara	peppers	trowel	9:30 AM
Luis	tomatoes	spade	8:30 AM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 2,304 -> 792 -> 264 -> 108 -> 36 -> 18 -> 6 -> 2 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. the herbs was scheduled before the hoe.
2. Iris was scheduled before the tomatoes.
3. the hoe was scheduled for 9:00 AM.
4. Kara was scheduled for 9:30 AM.
5. Jonah was scheduled for 9:00 AM.
6. Iris was paired with the rake.
7. Luis was paired with the spade.
8. the herbs was scheduled before the spade.
9. Luis was paired with the tomatoes.
10. the tomatoes was scheduled immediately before the roses.

Answer 4: Cafe Orders

Complete matching table and uniqueness audit

Person	Meal	Drink	Pickup
Maya	salad	juice	12:00 PM
Noah	muffin	milk	12:15 PM
Olive	soup	coffee	11:30 AM
Peter	bagel	tea	11:45 AM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 1,728 -> 576 -> 192 -> 72 -> 24 -> 6 -> 2 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. the soup was scheduled before Peter.
2. Olive was scheduled immediately before Peter.
3. Maya was scheduled immediately before Noah.
4. Olive was scheduled immediately before the bagel.
5. the salad was scheduled immediately before the muffin.
6. Peter was scheduled before the salad.
7. the juice was scheduled immediately before the milk.
8. the coffee was scheduled immediately before the tea.
9. the soup was scheduled before the juice.

Answer 5: Museum Tour

Complete matching table and uniqueness audit

Person	Gallery	Souvenir	Entry
Quinn	space	poster	1:40 PM
Rosa	dinosaurs	postcard	1:20 PM
Sam	art	notebook	2:00 PM
Talia	oceans	map	1:00 PM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 1,728 -> 576 -> 192 -> 72 -> 24 -> 6 -> 2 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. Talia was scheduled before the art.
2. Talia was scheduled immediately before Rosa.
3. the oceans was scheduled for 1:00 PM.
4. the space was scheduled for 1:40 PM.
5. Rosa was scheduled immediately before Quinn.
6. Talia was scheduled immediately before the dinosaurs.
7. the postcard was scheduled immediately before the poster.
8. the map was scheduled immediately before the postcard.
9. the notebook was not scheduled for 1:00 PM.

Answer 6: Repair Day

Complete matching table and uniqueness audit

Person	Object	Tool	Start
Uma	radio	pliers	2:30 PM
Victor	bicycle	wrench	3:30 PM
Willa	lamp	screwdriver	2:00 PM
Xander	bookshelf	saw	3:00 PM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 1,728 -> 576 -> 192 -> 72 -> 24 -> 6 -> 2 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. Willa was scheduled before the radio.
2. the lamp was scheduled immediately before the radio.
3. the bookshelf was scheduled immediately before the bicycle.
4. Xander was scheduled before the bicycle.
5. Willa was scheduled immediately before Uma.
6. the lamp was scheduled before the bookshelf.
7. the screwdriver was scheduled before the radio.
8. the pliers was scheduled immediately before the saw.
9. the bicycle was not paired with the saw.

Answer 7: Ferry Trip

Complete matching table and uniqueness audit

Person	Destination	Bag	Departure
Yara	Bayport	suitcase	8:45 AM
Zane	Lakeshore	cooler	8:15 AM
Amir	Harborview	basket	7:45 AM
Bella	Cliffside	backpack	7:15 AM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 5,184 -> 1,728 -> 576 -> 192 -> 72 -> 24 -> 8 -> 4 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. the Cliffside was scheduled before the suitcase.
2. the Cliffside was scheduled immediately before the Harborview.
3. the cooler was scheduled immediately before the suitcase.
4. the backpack was scheduled immediately before the basket.
5. Bella was scheduled before the basket.
6. Bella was scheduled immediately before the Harborview.
7. Zane was scheduled immediately before Yara.
8. the basket was scheduled before the suitcase.
9. Zane was paired with the Lakeshore.

Answer 8: Makers Fair

Complete matching table and uniqueness audit

Person	Display	Ribbon	Demo
Cora	robot	green	10:50 AM
Dylan	wind chime	purple	10:10 AM
Elena	model bridge	blue	10:30 AM
Farid	clock	orange	11:10 AM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 3,456 -> 1,296 -> 408 -> 116 -> 36 -> 12 -> 3 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

- 1. Dylan was scheduled immediately before Elena.
- 2. the model bridge was scheduled before Farid.
- 3. the wind chime was scheduled before the orange.
- 4. the blue was scheduled for 10:30 AM.
- 5. Elena was scheduled immediately before the robot.
- 6. the clock was paired with the orange.
- 7. the wind chime was paired with the purple.
- 8. Farid was not paired with the green.

Answer 9: Nature Center

Complete matching table and uniqueness audit

Person	Trail	Sighting	Finish
Gia	marsh	heron	4:00 PM
Hector	pine	fox	3:20 PM
Imani	ridge	turtle	3:00 PM
Joel	cedar	owl	3:40 PM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 3,456 -> 1,152 -> 432 -> 132 -> 36 -> 12 -> 3 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. the turtle was scheduled immediately before the fox.
2. the owl was scheduled immediately before the heron.
3. Imani was scheduled before the cedar.
4. the ridge was scheduled before the owl.
5. the cedar was scheduled before the marsh.
6. Imani was scheduled immediately before Hector.
7. Joel was scheduled immediately before the marsh.
8. the pine was scheduled for 3:20 PM.

Answer 10: Radio Schedule

Complete matching table and uniqueness audit

Person	Segment	Guest	Airtime
Keira	quiz	coach	2:30 PM
Leo	news	doctor	1:00 PM
Mina	weather	writer	2:00 PM
Owen	interview	chef	1:30 PM

WHY THIS ANSWER IS UNIQUE

The validator began with all 13,824 one-to-one assignments. Applying the clues in order left: 3,456 -> 1,152 -> 432 -> 132 -> 42 -> 14 -> 5 -> 1.

Verification result: exactly 1 assignment

Every listed clue is true for the table above. Removing uncertainty by exhaustive enumeration confirms that no second complete matching also satisfies all clues.

CLUE CHECKLIST

1. the news was scheduled immediately before the interview.
2. the weather was scheduled immediately before the quiz.
3. Leo was scheduled before the coach.
4. the chef was scheduled before the weather.
5. the weather was paired with the writer.
6. Leo was scheduled immediately before Owen.
7. Owen was scheduled immediately before Mina.
8. Leo was scheduled immediately before the chef.