

Name _____

Date _____

Five students sat together at lunch. Each student had a different drink and had a different fruit.

Use the clues to find each student's drink and fruit.

Clues

- Ivy did not drink the water.
- The student who drank the water had the grapes.
- Omar drank the iced tea.
- The student who drank the orange juice had the grapes or the apple.
- Dana had the banana or the plum.
- Of the student who drank the cocoa and the student who drank the orange juice, one had the apple and the other had the pear.
- Either Chloe had the pear or Theo had the grapes, but not both.
- The student who drank the iced tea did not have the banana.

		Drink					Fruit				
		orange juice	iced tea	cocoa	milk	water	banana	plum	apple	pear	grapes
Name	Chloe										
	Dana										
	Ivy										
	Omar										
	Theo										
Fruit	banana										
	plum										
	apple										
	pear										
	grapes										

Answers

Chloe

_____ drink
_____ fruit

Dana

_____ drink
_____ fruit

Ivy

_____ drink
_____ fruit

Omar

_____ drink
_____ fruit

Theo

_____ drink
_____ fruit

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five campers signed up for activities at summer camp. Each camper is a different age and sleeps in a different cabin.

Use the clues to find each camper's age and cabin.

Clues

- Jack is younger than the camper who sleeps in the Fox cabin.
- Jack does not sleep in the Hawk cabin.
- Jack is older than the camper who sleeps in the Owl cabin.
- Either Jack sleeps in the Owl cabin or Priya is 10, but not both.
- Hana is not 12.
- Either Noah sleeps in the Deer cabin or the camper who sleeps in the Bear cabin is 9, but not both.
- Hana sleeps in the Hawk cabin or the Owl cabin.
- The camper who is 11 sleeps in the Fox cabin.
- Noah is not 11.

		Age					Cabin				
		8	9	10	11	12	Owl	Fox	Deer	Hawk	Bear
Name	Hana										
	Ivy										
	Jack										
	Noah										
	Priya										
Cabin	Owl										
	Fox										
	Deer										
	Hawk										
	Bear										

Answers

Hana

_____ age
_____ cabin

Ivy

_____ age
_____ cabin

Jack

_____ age
_____ cabin

Noah

_____ age
_____ cabin

Priya

_____ age
_____ cabin

Stuck? Try it and see

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New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five artists each hung one piece in the school art show. Each artist made a different kind of art and chose a different color frame.

Use the clues to find each artist's artwork and frame.

Clues

- Will chose the purple frame or the yellow frame.
- Gus made the collage.
- Bella did not choose the orange frame.
- Either the artist who chose the purple frame made the clay pot or the artist who chose the orange frame made the collage, but not both.
- The artist who made the painting chose the yellow frame.
- The artist who made the mask chose the orange frame.
- Either Priya chose the red frame or Bella made the painting, but not both.
- Either Will made the clay pot or Priya made the mask, but not both.

		Artwork					Frame				
		collage	mobile	clay pot	mask	painting	red	green	yellow	orange	purple
Name	Bella										
	Gus										
	Mia										
	Priya										
	Will										
Frame	red										
	green										
	yellow										
	orange										
	purple										

Answers

Bella

_____ artwork
_____ frame

Gus

_____ artwork
_____ frame

Mia

_____ artwork
_____ frame

Priya

_____ artwork
_____ frame

Will

_____ artwork
_____ frame

Stuck? Try it and see

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New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five runners ran the last race on field day. Each runner ate a different snack afterward and finished in a different place.

Use the clues to find each runner's snack and place.

Clues

1. Either the runner who ate the popcorn finished 1st or Priya ate the banana, but not both.
2. Either Leo or Kai ate the popcorn.
3. The runner who ate the banana finished 2nd.
4. Priya finished ahead of Bella.
5. The runner who ate the orange finished 5th.
6. Bella ate the popcorn or the grapes.
7. Either Leo or Tess finished 4th.
8. Either the runner who ate the grapes finished 1st or Kai ate the orange, but not both.

		Snack					Place				
		pretzels	banana	grapes	orange	popcorn	1st	2nd	3rd	4th	5th
Name	Bella										
	Kai										
	Leo										
	Priya										
	Tess										
Place	1st										
	2nd										
	3rd										
	4th										
	5th										

Answers

Bella

_____ snack
_____ place

Kai

_____ snack
_____ place

Leo

_____ snack
_____ place

Priya

_____ snack
_____ place

Tess

_____ snack
_____ place

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five students entered the science fair. Each student made a different project and won a different prize.

Use the clues to find each student's project and prize.

Clues

- The student who made the volcano did not win 3rd prize.
- Of Dana and Gus, one won 1st prize and the other won 4th prize.
- Nora made the plant maze or the weather station.
- The student who made the magnet car won 4th prize.
- Ella placed one spot ahead of Leo.
- Ella made the volcano or the solar oven.
- Dana won a better prize than the student who made the solar oven.
- The student who made the plant maze won 1st prize or 2nd prize.

		Project					Prize				
		solar oven	plant maze	volcano	magnet car	weather station	1st	2nd	3rd	4th	5th
Name	Dana										
	Ella										
	Gus										
	Leo										
	Nora										
Prize	1st										
	2nd										
	3rd										
	4th										
	5th										

Answers

Dana

_____ project
_____ prize

Ella

_____ project
_____ prize

Gus

_____ project
_____ prize

Leo

_____ project
_____ prize

Nora

_____ project
_____ prize

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five students each play one sport after school. Each student has practice on a different day and wears a different color jersey.

Use the clues to find each student's day and jersey.

Clues

1. Either Eli has practice on Thursday or the student who has practice on Friday wears the purple jersey, but not both.
2. Tess does not wear the gold jersey.
3. Either Tess wears the blue jersey or the student who wears the purple jersey has practice on Friday, but not both.
4. Tess has practice the day before Hana.
5. Either Hana or Sam wears the black jersey.
6. Tess has practice earlier in the week than the student who wears the red jersey.
7. The student who wears the red jersey has practice the day after the student who wears the gold jersey.
8. The student who wears the purple jersey has practice later in the week than Sam.

		Day					Jersey				
		Monday	Tuesday	Wednesday	Thursday	Friday	blue	black	red	gold	purple
Name	Eli										
	Hana										
	Nora										
	Sam										
	Tess										
Jersey	blue										
	black										
	red										
	gold										
	purple										

Answers

Eli

_____ day
_____ jersey

Hana

_____ day
_____ jersey

Nora

_____ day
_____ jersey

Sam

_____ day
_____ jersey

Tess

_____ day
_____ jersey

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five students went on the class trip to the museum. Each student bought a different souvenir and sat in a different row on the bus. Row 1 is at the front.

Use the clues to find each student's souvenir and bus row.

Clues

- Dev sat in row 1.
- The student who bought the sticker sat in row 3.
- The student who bought the pencil sat in row 1 or row 5.
- Of the student who bought the poster and the student who bought the sticker, one sat in row 2 and the other sat in row 3.
- Bella did not buy the magnet.
- Of Ava and Will, one bought the sticker and the other sat in row 5.
- Either Will sat in row 4 or Ava bought the sticker, but not both.
- The student who bought the keychain sat in row 1.

		Souvenir					Bus row				
		poster	pencil	keychain	sticker	magnet	1	2	3	4	5
Name	Ava										
	Bella										
	Dev										
	Will										
	Zoe										
Bus row	1										
	2										
	3										
	4										
	5										

Answers

Ava

_____ souvenir
_____ bus row

Bella

_____ souvenir
_____ bus row

Dev

_____ souvenir
_____ bus row

Will

_____ souvenir
_____ bus row

Zoe

_____ souvenir
_____ bus row

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five kids each sold one thing at the neighborhood yard sale. Each seller sold a different item and got a different price.

Use the clues to find each seller's item and price.

Clues

- Cole got more money than Priya.
- Priya did not get \$2.
- The seller who sold the lamp got \$6.
- Tess got \$1 less than Ben.
- The seller who sold the puzzle got \$2.
- Either Tess sold the puzzle or Ella sold the lamp, but not both.
- Of the seller who got \$5 and the seller who got \$6, one sold the guitar and the other sold the lamp.
- Either Priya or Tess sold the kite.

		Item					Price				
		puzzle	bike	guitar	kite	lamp	\$2	\$3	\$4	\$5	\$6
Name	Ben										
	Cole										
	Ella										
	Priya										
	Tess										
Price	\$2										
	\$3										
	\$4										
	\$5										
	\$6										

Answers

Ben

_____ item
_____ price

Cole

_____ item
_____ price

Ella

_____ item
_____ price

Priya

_____ item
_____ price

Tess

_____ item
_____ price

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five students each played a solo at the school concert. Each player played a different instrument and practices on a different day.

Use the clues to find each player's instrument and day.

Clues

- Lucy does not practice on Friday.
- Either Omar or Lucy played the piano.
- The player who played the trumpet practices later in the week than Ava.
- Either Jada practices on Monday or Lucy practices on Thursday, but not both.
- Omar practices earlier in the week than Ava.
- The player who played the flute practices on Tuesday.
- Either Jada played the guitar or Ava played the piano, but not both.
- Omar practices on Tuesday or Friday.

		Instrument					Day				
		drums	trumpet	flute	guitar	piano	Monday	Tuesday	Wednesday	Thursday	Friday
Name	Ava										
	Jada										
	Lucy										
	Noah										
	Omar										
Day	Monday										
	Tuesday										
	Wednesday										
	Thursday										
	Friday										

Answers

Ava

_____ instrument
_____ day

Jada

_____ instrument
_____ day

Lucy

_____ instrument
_____ day

Noah

_____ instrument
_____ day

Omar

_____ instrument
_____ day

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five gardeners each planted one row in the class garden. Each gardener used a different tool and planted something different.

Use the clues to find each gardener's tool and plant.

Clues

- Jack used the wheelbarrow.
- Either Jack or Ivy planted the sunflowers.
- The gardener who used the hoe planted the sunflowers.
- Either Sam planted the pumpkins or Mia used the trowel, but not both.
- Ella used the rake or the shovel.
- Either Mia or Jack planted the peas.
- The gardener who used the trowel planted the beans.
- The gardener who used the shovel planted the tomatoes.

		Tool					Plant				
		wheelbarrow	trowel	hoe	rake	shovel	peas	pumpkins	tomatoes	sunflowers	beans
Name	Ella										
	Ivy										
	Jack										
	Mia										
	Sam										
Plant	peas										
	pumpkins										
	tomatoes										
	sunflowers										
	beans										

Answers

Ella

_____ tool
_____ plant

Ivy

_____ tool
_____ plant

Jack

_____ tool
_____ plant

Mia

_____ tool
_____ plant

Sam

_____ tool
_____ plant

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five readers joined the summer reading challenge. Each reader checked out a different kind of book and read a different number of books.

Use the clues to find each reader's kind of book and number of books.

Clues

- Ava read fewer books than Dana.
- Dana read 4 books or 8 books.
- The reader who checked out the sports book read 7 books.
- Of the reader who checked out the fantasy book and the reader who checked out the animal book, one read 4 books and the other read 6 books.
- Ava read fewer books than Leo.
- Of Dana and Priya, one checked out the space book and the other checked out the fantasy book.
- Priya did not read 4 books.
- Either Kai checked out the mystery or the reader who checked out the animal book read 7 books, but not both.

		Kind of book					Number of books				
		space	fantasy	sports	mystery	animals	4	5	6	7	8
Name	Ava										
	Dana										
	Kai										
	Leo										
	Priya										
Number of books	4										
	5										
	6										
	7										
	8										

Answers

Ava

_____ kind of book
_____ number of books

Dana

_____ kind of book
_____ number of books

Kai

_____ kind of book
_____ number of books

Leo

_____ kind of book
_____ number of books

Priya

_____ kind of book
_____ number of books

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

New to logic puzzles? See printablescholar.com/logic-puzzles/how-to-solve

Name _____

Date _____

Five friends each brought one pet to the school pet show. Each friend is a different age and won a different color ribbon.

Use the clues to find each friend's age and ribbon.

Clues

- The friend who is 8 won the purple ribbon.
- Noah is not 9.
- The friend who won the purple ribbon is younger than Tess.
- Either Ivy or Noah won the yellow ribbon.
- Of the friend who is 7 and the friend who is 9, one won the yellow ribbon and the other won the orange ribbon.
- Lucy is not 7.
- Ivy is one year younger than Noah.
- Of the friend who is 7 and the friend who is 11, one won the orange ribbon and the other won the blue ribbon.

		Age					Ribbon				
		7	8	9	10	11	yellow	purple	blue	orange	red
Name	Ivy										
	Jack										
	Lucy										
	Noah										
	Tess										
Ribbon	yellow										
	purple										
	blue										
	orange										
	red										

Answers

Ivy

_____ age
_____ ribbon

Jack

_____ age
_____ ribbon

Lucy

_____ age
_____ ribbon

Noah

_____ age
_____ ribbon

Tess

_____ age
_____ ribbon

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

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The Lunch Table

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Drink	Fruit
Chloe	orange juice	apple
Dana	milk	banana
Ivy	cocoa	pear
Omar	iced tea	plum
Theo	water	grapes

		Drink					Fruit				
		orange juice	iced tea	cocoa	milk	water	banana	plum	apple	pear	grapes
Name	Chloe	●	X	X	X	X	X	X	●	X	X
	Dana	X	X	X	●	X	●	X	X	X	X
	Ivy	X	X	●	X	X	X	X	X	●	X
	Omar	X	●	X	X	X	X	●	X	X	X
	Theo	X	X	X	X	●	X	X	X	X	●
Fruit	banana	X	X	X	●	X					
	plum	X	●	X	X	X					
	apple	●	X	X	X	X					
	pear	X	X	●	X	X					
	grapes	X	X	X	X	●					

The try-it-and-see step

Clue 7. Suppose Chloe had the pear. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Theo had the grapes.

A ● marks a yes and an × marks a no. Every box can be filled in from the clues.

Name	Age	Cabin
Hana	8	Owl
Ivy	11	Fox
Jack	9	Bear
Noah	12	Hawk
Priya	10	Deer

		Age					Cabin				
		8	9	10	11	12	Owl	Fox	Deer	Hawk	Bear
Name	Hana	●	×	×	×	×	●	×	×	×	×
	Ivy	×	×	×	●	×	×	●	×	×	×
	Jack	×	●	×	×	×	×	×	×	×	●
	Noah	×	×	×	×	●	×	×	×	●	×
	Priya	×	×	●	×	×	×	×	●	×	×
Cabin	Owl	●	×	×	×	×					
	Fox	×	×	×	●	×					
	Deer	×	×	●	×	×					
	Hawk	×	×	×	×	●					
	Bear	×	●	×	×	×					

The try-it-and-see step

Clue 6. Suppose Noah sleeps in the Deer cabin. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: the camper who sleeps in the Bear cabin is 9.

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Artwork	Frame
Bella	painting	yellow
Gus	collage	red
Mia	mask	orange
Priya	mobile	green
Will	clay pot	purple

		Artwork					Frame				
		collage	mobile	clay pot	mask	painting	red	green	yellow	orange	purple
Name	Bella	X	X	X	X	●	X	X	●	X	X
	Gus	●	X	X	X	X	●	X	X	X	X
	Mia	X	X	X	●	X	X	X	X	●	X
	Priya	X	●	X	X	X	X	●	X	X	X
	Will	X	X	●	X	X	X	X	X	X	●
Frame	red	●	X	X	X	X					
	green	X	●	X	X	X					
	yellow	X	X	X	X	●					
	orange	X	X	X	●	X					
	purple	X	X	●	X	X					

The try-it-and-see step

Clue 7. Suppose Priya chose the red frame. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Bella made the painting.

The Field Day Race

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Snack	Place
Bella	grapes	3rd
Kai	orange	5th
Leo	popcorn	4th
Priya	banana	2nd
Tess	pretzels	1st

		Snack					Place				
		pretzels	banana	grapes	orange	popcorn	1st	2nd	3rd	4th	5th
Name	Bella	X	X	●	X	X	X	X	●	X	X
	Kai	X	X	X	●	X	X	X	X	X	●
	Leo	X	X	X	X	●	X	X	X	●	X
	Priya	X	●	X	X	X	X	●	X	X	X
	Tess	●	X	X	X	X	●	X	X	X	X
Place	1st	●	X	X	X	X					
	2nd	X	●	X	X	X					
	3rd	X	X	●	X	X					
	4th	X	X	X	X	●					
	5th	X	X	X	●	X					

The try-it-and-see step

Clue 1. Suppose the runner who ate the popcorn finished 1st. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Priya ate the banana.

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Project	Prize
Dana	plant maze	1st
Ella	volcano	2nd
Gus	magnet car	4th
Leo	solar oven	3rd
Nora	weather station	5th

		Project					Prize				
		solar oven	plant maze	volcano	magnet car	weather station	1st	2nd	3rd	4th	5th
Name	Dana	X	●	X	X	X	●	X	X	X	X
	Ella	X	X	●	X	X	X	●	X	X	X
	Gus	X	X	X	●	X	X	X	X	●	X
	Leo	●	X	X	X	X	X	X	●	X	X
	Nora	X	X	X	X	●	X	X	X	X	●
Prize	1st	X	●	X	X	X					
	2nd	X	X	●	X	X					
	3rd	●	X	X	X	X					
	4th	X	X	X	●	X					
	5th	X	X	X	X	●					

The try-it-and-see step

Clue 2. Suppose Dana won 4th prize. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Dana won 1st prize.

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Day	Jersey
Eli	Thursday	gold
Hana	Wednesday	purple
Nora	Friday	red
Sam	Monday	black
Tess	Tuesday	blue

		Day					Jersey				
		Monday	Tuesday	Wednesday	Thursday	Friday	blue	black	red	gold	purple
Name	Eli	X	X	X	●	X	X	X	X	●	X
	Hana	X	X	●	X	X	X	X	X	X	●
	Nora	X	X	X	X	●	X	X	●	X	X
	Sam	●	X	X	X	X	X	●	X	X	X
	Tess	X	●	X	X	X	●	X	X	X	X
Jersey	blue	X	●	X	X	X					
	black	●	X	X	X	X					
	red	X	X	X	X	●					
	gold	X	X	X	●	X					
	purple	X	X	●	X	X					

The try-it-and-see step

Clue 1. Suppose the student who has practice on Friday wears the purple jersey. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Eli has practice on Thursday.

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Souvenir	Bus row
Ava	sticker	3
Bella	poster	2
Dev	keychain	1
Will	pencil	5
Zoe	magnet	4

		Souvenir					Bus row				
		poster	pencil	keychain	sticker	magnet	1	2	3	4	5
Name	Ava	X	X	X	●	X	X	X	●	X	X
	Bella	●	X	X	X	X	X	●	X	X	X
	Dev	X	X	●	X	X	●	X	X	X	X
	Will	X	●	X	X	X	X	X	X	X	●
	Zoe	X	X	X	X	●	X	X	X	●	X
Bus row	1	X	X	●	X	X					
	2	●	X	X	X	X					
	3	X	X	X	●	X					
	4	X	X	X	X	●					
	5	X	●	X	X	X					

The try-it-and-see step

Clue 6. Suppose Ava sat in row 5. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Ava bought the sticker.

The Yard Sale

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Item	Price
Ben	bike	\$3
Cole	lamp	\$6
Ella	guitar	\$5
Priya	kite	\$4
Tess	puzzle	\$2

		Item					Price				
		puzzle	bike	guitar	kite	lamp	\$2	\$3	\$4	\$5	\$6
Name	Ben	X	●	X	X	X	X	●	X	X	X
	Cole	X	X	X	X	●	X	X	X	X	●
	Ella	X	X	●	X	X	X	X	X	●	X
	Priya	X	X	X	●	X	X	X	●	X	X
	Tess	●	X	X	X	X	●	X	X	X	X
Price	\$2	●	X	X	X	X					
	\$3	X	●	X	X	X					
	\$4	X	X	X	●	X					
	\$5	X	X	●	X	X					
	\$6	X	X	X	X	●					

The try-it-and-see step

Clue 6. Suppose Ella sold the lamp. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Tess sold the puzzle.

The School Concert

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Instrument	Day
Ava	drums	Thursday
Jada	guitar	Monday
Lucy	piano	Wednesday
Noah	trumpet	Friday
Omar	flute	Tuesday

		Instrument					Day				
		drums	trumpet	flute	guitar	piano	Monday	Tuesday	Wednesday	Thursday	Friday
Name	Ava	●	X	X	X	X	X	X	X	●	X
	Jada	X	X	X	●	X	●	X	X	X	X
	Lucy	X	X	X	X	●	X	X	●	X	X
	Noah	X	●	X	X	X	X	X	X	X	●
	Omar	X	X	●	X	X	X	●	X	X	X
Day	Monday	X	X	X	●	X					
	Tuesday	X	X	●	X	X					
	Wednesday	X	X	X	X	●					
	Thursday	●	X	X	X	X					
	Friday	X	●	X	X	X					

The try-it-and-see step

Clue 4. Suppose Lucy practices on Thursday. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Jada practices on Monday.

The Class Garden

Hard 10

Grade 6 and up

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Tool	Plant
Ella	rake	pumpkins
Ivy	hoe	sunflowers
Jack	wheelbarrow	peas
Mia	trowel	beans
Sam	shovel	tomatoes

		Tool					Plant				
		wheelbarrow	trowel	hoe	rake	shovel	peas	pumpkins	tomatoes	sunflowers	beans
Name	Ella	X	X	X	●	X	X	●	X	X	X
	Ivy	X	X	●	X	X	X	X	X	●	X
	Jack	●	X	X	X	X	●	X	X	X	X
	Mia	X	●	X	X	X	X	X	X	X	●
	Sam	X	X	X	X	●	X	X	●	X	X
Plant	peas	●	X	X	X	X					
	pumpkins	X	X	X	●	X					
	tomatoes	X	X	X	X	●					
	sunflowers	X	X	●	X	X					
	beans	X	●	X	X	X					

The try-it-and-see step

Clue 4. Suppose Sam planted the pumpkins. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Mia used the trowel.

The Reading Challenge

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Kind of book	Number of books
Ava	animals	4
Dana	space	8
Kai	mystery	5
Leo	sports	7
Priya	fantasy	6

		Kind of book					Number of books				
		space	fantasy	sports	mystery	animals	4	5	6	7	8
Name	Ava	X	X	X	X	●	●	X	X	X	X
	Dana	●	X	X	X	X	X	X	X	X	●
	Kai	X	X	X	●	X	X	●	X	X	X
	Leo	X	X	●	X	X	X	X	X	●	X
	Priya	X	●	X	X	X	X	X	●	X	X
Number of books	4	X	X	X	X	●					
	5	X	X	X	●	X					
	6	X	●	X	X	X					
	7	X	X	●	X	X					
	8	●	X	X	X	X					

The try-it-and-see step

Clue 4. Suppose the reader who checked out the fantasy book read 4 books. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: the reader who checked out the fantasy book read 6 books.

A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Age	Ribbon
Ivy	9	yellow
Jack	7	orange
Lucy	8	purple
Noah	10	red
Tess	11	blue

		Age					Ribbon				
		7	8	9	10	11	yellow	purple	blue	orange	red
Name	Ivy	X	X	●	X	X	●	X	X	X	X
	Jack	●	X	X	X	X	X	X	X	●	X
	Lucy	X	●	X	X	X	X	●	X	X	X
	Noah	X	X	X	●	X	X	X	X	X	●
	Tess	X	X	X	X	●	X	X	●	X	X
Ribbon	yellow	X	X	●	X	X					
	purple	X	●	X	X	X					
	blue	X	X	X	X	●					
	orange	●	X	X	X	X					
	red	X	X	X	●	X					

The try-it-and-see step

Clue 5. Suppose the friend who is 7 won the yellow ribbon. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: the friend who is 7 won the orange ribbon.