

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.

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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.