

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

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.