

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.

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

The Pet Show

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.