

# LOGIC PROBLEM

• ENCORE, DRUM CORPS! •

A musical group of secondary-school students decided to “play up” their talents by forming a drum corps. Today their very upbeat music is entertaining everyone from the school—parents, teachers, administrators, and other students. One is the drum majorette, one is the bass drummer, one is the side drummer, and the remaining two are the cymbalist and trumpeter. No two drum-corps members are the same age. From the information given, determine each corps member’s full name, age (14, 15, 16, 17, or 18), and position. (Note: Young women are Amanda and Esther, and young men are Leonard, Mark, and Owen.)

1. Leonard does not play the side drum.
2. The female drum majorette, who is the oldest of the five, is not Powell.
3. When the last names of the corps members are listed in alphabetical order, the bass drummer’s name appears after Mark’s but before that of the 17-year-old.
4. The trumpeter’s last name is Farrow.
5. Neither Owen Dale nor the youngest member of the corps plays a drum.
6. The last name of the 15-year-old is Gray.
7. Esther’s last name is not Tyson.

Solution is on the next page

		LAST NAME					AGE					POSITION					
		DALE	FARROW	GRAY	POWELL	TYSON	14	15	16	17	18	BASS DRUM	CYMBALS	DRUM MAJOR	SIDE DRUM	TRUMPET	
FIRST NAME	AMANDA																
	ESTHER																
	LEONARD																
	MARK																
	OWEN																
POSITION	BASS DRUM																
	CYMBALS																
	DRUM MAJOR																
	SIDE DRUM																
	TRUMPET																
AGE	14																
	15																
	16																
	17																
	18																

  

FIRST NAME	LAST NAME	AGE	POSITION

**LOGIC PROBLEMS SPECTACULAR  
SOLUTION**

Owen Dale is the cymbalist or trumpeter (5); he's the cymbalist (4). The trumpeter, Farrow (4), is 14 (5). Gray is 15 (6). Owen isn't 18 (2) or 17 (3); he's 16. The 18-year-old drum majorette is Tyson (2); she's Amanda (7). Powell is 17. Mark is Farrow and the bass drummer is Gray (3). Leonard plays the bass drum (1). Esther Powell plays the side drum.

In summary:

Amanda Tyson, 18, drum majorette  
Esther Powell, 17, side drummer  
Leonard Gray, 15, bass drummer  
Mark Farrow, 14, trumpeter  
Owen Dale, 16, cymbalist