

**LESSON**  
**10.3****Challenge Practice***For use with the lesson "Analyze Data"*

**This table shows the number of students who like sports based on a survey about whether their parents like sports.**

	Neither parent likes sports	1 parent likes sports	Both parents like sports	Total
Student likes sports	21	49	78	148
Student does not like sports	62	54	31	147
Total	83	103	109	295

- Find the percent of students who like sports given that both of their parents like sports.
- Find the percent of students who do not like sports given that neither of their parents like sports.
- Find the percent of students who like sports given that at least one of their parents does not like sports.
- Change the 78 and the 148 in the table so that 65% of the total students who like sports have parents who both like sports. Show your work.

**Find the value of each variable and complete the table.**

5.

	Fried	Grilled	Total
Chicken	$2x + 6$	$3x - 15$	136
Shrimp			
Total	115		245

6.

	Marigolds	Snapdragons	Petunias	Total
Tall	$3x + y$	$x + 2y$	$x + y + 8$	56
Short	$x + 2y$	$4x + y$	$2x + 2y + 10$	73
Total				

7.

	Opera	Symphony	Ballet	Total
Boys	$2x$	$3y + 6$	$z^2 + 5z$	
Girls	$x^2$	$y^2 - 5y$	$9z - 6$	
Total	80	41	45	