Additive Computation: Table of Children's Strategies

PROBLEM	STRATEGY		
	Incrementing	**Combining Tens and Ones**	**Compensating**
Brittany gave 28 campus tours in the fall. This spring she will give 35 more. How many tours will she have given altogether?	"20 and 30 is 50, and 8 more is 58. 2 more is 60, and 3 more than that is 63."	"20 and 30 is 50. 8 plus 5 is like 8 plus 2 and 3 more, so it's 13. 50 and 13 is 63."	"30 and 35 would e 65. But it's 28, so it's 2 less. It's 63."
Emily had 75 pages to read. She read 26 of them. How many pages did he have left to read?	"70 take away 20 is 50, and take away 6 more is 44. But you have to put back the 5 from the 75. That's 49."	"70 take away 20 is 50. 5 take away 6, that makes 1 more to take away from the 50. That's 49."	"If it was 75 take away 25, it would be 50. But it's 26, so you have to take one more away. 49."
Stefan scored 47 points in his first two basketball games. How many more points does he have to score to have scored 75 points all together?	"47 and 3 is 50 and 20 more is 70. So that's 23, but I need 5 more, so it's 28." "47, 57, 67. That's 20. 67 and 3 is 70, and 5 more is 75. So 8 and the 20, 28."	*Not commonly used*	"If it were 45, it would be 30. But it's 47, so it's 2 less. 28."

Table adapted from *Children's Mathematics*, page 74, by Dr. Felton-Koestler.