

Section 5.3 Math Link

This worksheet will help you with the Math Link on page 199.

1. Complete the table for this number trick.

Guess a Number 1

Step	Arithmetic	Algebra
Step 1 Pick a number.	12	n
Step 2 Add 5.	$12 + 5 = \underline{\quad}$	$n + 5$
Step 3 Double the sum.	$2 \times (12 + 5) = \underline{\quad}$	
Step 4 Subtract 10.	$2 \times (12 + 5) - 10 = \underline{\quad}$	
Step 5 Determine the original number.	Answer to Step 4 $\underline{\quad}$ divided by $\underline{\quad} = 12$	

2. This next table shows how another number trick works. Use the algebra to write the trick.

Guess a Number 2

Step	Arithmetic	Algebra
1.		n
2.		$2n$
3.		$2n + 9$
4.		$(2n + 9) - 3$
5.		$\frac{(2n + 9) - 3}{2}$
6. The answer is 3.		$\frac{(2n + 9) - 3}{2} - n$