Properties of Multiplication and Division	
Multiplication	<u>Division</u>
Identity Property - The product (answer) of any	Identity Property - The quotient (answer) of
number and I is that number.	any number and I is that number.
$4 \times 1 = 4$ $36 \times 1 = 36$ $1 \times 253 = 253$	4 ÷ l = 4 36 ÷ l = 36 253 ÷ l = 253
Zero Property - The product (answer) of any	Zero Property - The quotient (answer) of any
number and zero is zero.	number and zero is zero.
$2 \times 0 = 0$ $0 \times 40 = 0$ $764 \times 0 = 0$	$2 \div 0 = 0$ $40 \div 0 = 0$ $764 \div 0 = 0$
Commutative Property - When you change the	One Property - The quotient (answer) of any
order of the factors the product stays the	number and itself is one.
same.	3 ÷ 3 = 1
$5 \times 6 = 30$ $6 \times 5 = 30$	
$7 \times 8 = 56$ $8 \times 7 = 56$	
You can use turn arounds in multiplication!	
Distributive Property - Multiplying a sum by a	
number is the same as multiplying each addend by	
the number and then adding the products	
(answers).	
$6 \times 7 = (3 \times 7) + (3 \times 7) =$	
$6 \times 7 = (5 \times 7) + (1 \times 7) =$	
You can make one of the numbers into the sum of	
a friendly number to multiply then add the	
multiplication problems!	
Associative Property - You can group the factors	
in different ways and still get the same product	
(answer).	
$2 \times (3 \times 4) = 24$ $(2 \times 3) \times 4 = 24$	