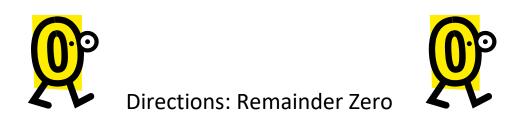
DIVISIBILITY RULES

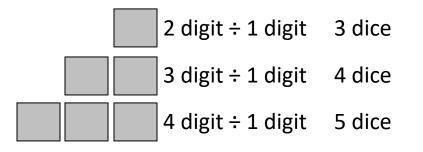
Divisible by 2:	The number is even.
Divisible by 3:	The sum of the digits is divisible by 3.
Divisible by 4:	Either the last 2 digits are 00 or they form a number that is divisible by 4.
Divisible by 5:	The ones digit of the number is either 0 or 5.
Divisible by 6:	The number is even and the sum of the digits is divisible by 3.
Divisible by 9:	The sum of the digits is divisible by 9.
Divisible by 10:	The ones digit of the number is 0.

**** The grade 5 standard (5.N.8) only calls for the divisibility rules for 2, 3, 5, & 10. The rules for 4, 6, &9 are included on this sheet to challenge those students who are efficient with all facts.



<u>Materials:</u> 1 recording sheet per player, dice, divisibility rules

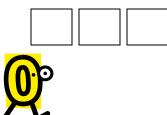
1. Each student rolls the number of dice needed to make the division equation.



- 2. Use the digits from your dice to write a division equation. *You cannot use 1 as your divisor.* Try to make the smallest remainder possible.
- 3. Compare your remainder with your partner. The partner with the smaller remainder puts a checkmark next to his/her work. The player with the most checkmarks wins!
- 2011 Massachusetts Frameworks: 5.NBT.6 Find whole-number quotients and remainders with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and or the relationship between multiplication and division.

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Name:	Remainder Zero	O	
Round 1Workspace		Remainder	Smallest?
Round 2Workspace			
Round 3Workspace			
Round 4Workspace			
Round 5Workspace			
Round Sworkspace			

