UNIT 2 QUANTITATIVE ABILITY IV

T4: Divisibility

Divisibility Rules: Chart

Divisibility Rules Chart	
Divisibility by 1	Every number is divisible by 1.
Divisibility by 2	When the last digit is 0, 2, 4, 6, or 8
Divisibility by 3	When the sum of digits is divisible by 3
Divisibility by 4	When the last two digits of any dividend are divisible by 4 **(NOTE:** Numbers having 00 as their last digits are also divisible by 4.)
Divisibility by 5	When the last digit is either 0 or 5
Divisibility by 6	When the number is divisible by both 2 and 3
Divisibility by 7	When the last digit is subtracted twice from the remaining digits and gives the multiple of 7
Divisibility by 8	When the last three digits are divisible by 8 **(NOTE:** Numbers having 000 as their last digits are also divisible by 8.)
Divisibility by 9	When the sum of all digits is divisible by 9
Divisibility by 10	When the last digit is 0
Divisibility by 11	When the difference between the sums of the alternative digits is divisible by 11
Divisibility by 12	When a number is both divisible by 3 and 4
Divisibility by 13	Multiply 4 with the last digit and add this product to the remaining number. Continue till a two-digit number is found. If the 2-digit number is divisible by 13, the number is divisible by 13.

The divisibility rule for 3 asks you to find the sum of the digits. If the sum of the digits is a multiple of 3, then the number is divisible by 3.

257 2 + 5 + 7 = 14.
14 is not a multiple of 3.

257 is not divisible by 3.
342 3 + 4 + 2 = 9.
9 is a multiple of 3.
342 is divisible by 3.

To cast out 3's don't add any 3, 6 or 9's. 342 … 4 + 2 = 6 268 … 2 + 8 = 10 692 … 2 = 2

Apply the divisibility rule for 3. If the number is divisible by 3, write 3. If the number is not divisible by 3, enter Ø.

_____ 47 _____ 70 _____ 122 _____ 140

_____ 169 _____ 51 _____ 111 _____ 60

_____ 86 _____ 100 _____ 38 _____ 14

_____ 164 _____ 68 _____ 77 _____ 61

_____ 148 _____ 145 _____ 46 _____ 64

_____ 81 _____ 131 _____ 119 _____ 26

_____ 54 _____ 137 _____ 92 _____ 83

_____ 141 _____ 56 _____ 90 _____ 44

_____ 75 _____ 159 _____ 166 _____ 50

_____ 156 _____ 55 _____ 107 _____ 87

_____ 78 _____ 96 _____ 155 _____ 72

_____ 167 _____ 134 _____ 69 _____ 40

_____ 108 _____ 117 _____ 106 _____ 31

_____ 41 _____ 74 _____ 19 _____ 124

_____ 36 _____ 95 _____ 59 _____ 29