LESSON 4·2 | Divisibility by the Digits
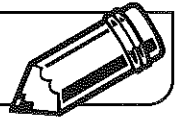
Ms. Winters asked Vito and Jacob to make answer cards for a division puzzle.
They had to find numbers that met all of the following characteristics.

		Example:
◆ The first digit is divisible by 1.		1
◆ The first two digits are divisible by 2.		12
◆ The first three digits are divisible by 3.		120
◆ The first four digits are divisible by 4.		1,204
◆ The first five digits are divisible by 5.		12,040
◆ The first six digits are divisible by 6.		120,402
◆ The first seven digits are divisible by 7.		1,204,021
◆ The first eight digits are divisible by 8.		12,049,216
◆ The first nine digits are divisible by 9.		120,402,162

1. Jacob knew that with divisibility rules, it should be easy. The boys started with 3-digit numbers and found 123 and 242. Latoya checked their work. What should she tell them?

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2. Use the characteristics listed above to find as many puzzle numbers as you can. Record them in the boxes below.

Puzzle Numbers

4-digit	5-digit	6-digit	7-digit	8-digit	9-digit

105