

**ANSWERS TO PREVIOUS PUZZLES:**

- 5. For two-digit numbers the result is always 5.5. For three-digit numbers the result is always thirty-seven. The result for four-digit numbers is 277.75. A nine-digit number produces a result of 12 345 679.
- 6. You always end up with a multiple of three.

*Perplexing Puzzles*  
**9 Guzinta**

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- Choose any whole number above 10.
- Add the digits that make up the number.
- Subtract this sum from the original number.
- Divide the result by nine.
- Try this several more times with different numbers
- Write about what you notice.

e.g.                      24

$$2 + 4 = 6$$
$$24 - 6 = 18$$
$$18 \div 9 = \underline{\quad}$$

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*Perplexing Puzzles*  
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- Pick any 3-digit number where all of the digits are different.
- Reverse the digits.
- Subtract the smaller number from the larger number.
- Divide the result by 99.
- Try this several more times.
- Write about what you notice.

e.g.                      417

$$714$$
$$714 - 417 = 713$$

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