- FIT

MAth on the Fly!



NAME:	DATE:
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Repeating Patterns and Ones Digit Problems

For problems 1–4, each pattern repeats in a loop. Find the indicated term in the loop.

- 1. A, B, C, D, E, A, B, C, D, E... Find the 76th letter
- 2. \triangle , \square , \bigcirc , \triangle , \square , \bigcirc ... Find the 80th shape
- $\frac{6}{7}$ = .857142857142... Find the 88th digit of the decimal

State the digit in the ones place of the answer of each math problem.

$$8_{\bullet}$$
 89,234⁰ × 20,387²

State the digit in the ones place of the answer of each math problem. Clue: The ones digit of the powers follow a loop.

13.
$$5^{99} \times 6^{100}$$

SOLUTIONS

1. 76th letter = A

2. 80th shape =

3. 88th digit = 1

4. 92nd sign =

5. Ones digit = 2

6. Ones digit = 2

7. Ones digit = 8

8. Ones digit = 9

9. Ones digit = 8

10. Ones digit = 9

11. Ones digit = 1

12. Ones digit = 8

13. Ones digit = 0

14. Ones digit = 6