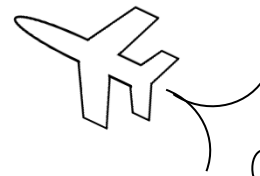




MAth on the Fly!



NAME: _____ DATE: _____

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 , \circ , \triangle , \square , \circ ... Find the 80th shape
3. $\frac{6}{7} = .857142857142...$ Find the 88th digit of the decimal
4. \leftarrow , \uparrow , \rightarrow , \downarrow , \leftarrow , \uparrow , \rightarrow , \downarrow ... Find the 92nd sign

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

5. $27,196 \times 42,453 \times 19,854$
6. $7,458 \times 2,432 \times 943 \times 7,009$
7. $1,698,742 \times 9,624,849$
8. $89,234^0 \times 20,387^2$

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

9. 2^{23}
10. 3^{30}
11. 7^{28}
12. 8^{41}
13. $5^{99} \times 6^{100}$
14. $9^{12} \times 4^{18}$

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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