

I U P U I
MATH CLUB TEASER #23

May 1, 2009
(due May 8, 2009)

SOLUTION

(1): $3 \times O$ has one digit, so O is 1, 2, or 3.

(10): Based on the above, the only valid possibility is

$$\boxed{O = 3} \quad \boxed{C = 9} \quad \boxed{Y = 2} \quad \boxed{L = 7}$$

(3): We know O and Y , so

$$\boxed{E = 6}$$

(2): P is twice B . Among the remaining numbers, the only valid combination is

$$\boxed{P = 8} \quad \boxed{B = 4}$$

(5): We know O , B , and Y , so

$$\boxed{R = 1}$$

(9): We know E and R , so

$$\boxed{H = 5}$$

and this leaves

$$\boxed{I = 0}$$

The combination is $\boxed{5-2-8-6-1-4-3-7-0-9}$

SOLVED BY:

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