

Adv. Mult. LEVEL 22

LESSON 22

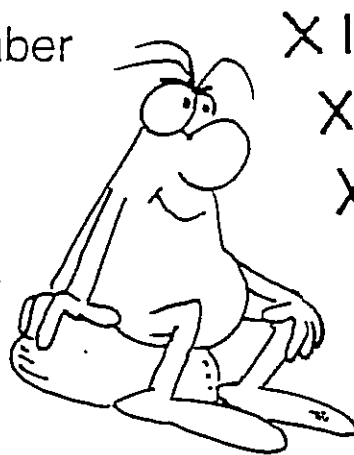
TACK ON TRAILING ZEROS



Here's a simple way to multiply any number by 10, or 100, or 1000, in your head.

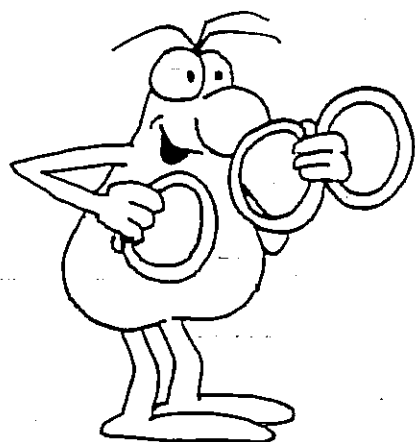
Look for a pattern in the zeros.

$$\begin{aligned} 5 \times 10 &= 5 \text{ tens} = 50 \\ 5 \times 100 &= 5 \text{ hundreds} = 500 \\ 5 \times 1000 &= 5 \text{ thousands} = 5000 \end{aligned}$$



$$\begin{aligned} &\times 10 \\ &\times 100 \\ &\times 1000 \end{aligned}$$

To multiply any number . . .



by 10 → tack on ONE trailing zero.

by 100 → tack on TWO trailing zeros.

by 1000 → tack on THREE trailing zeros.

Here's how a mental-math pro thinks . . .

$$9 \times 1000$$

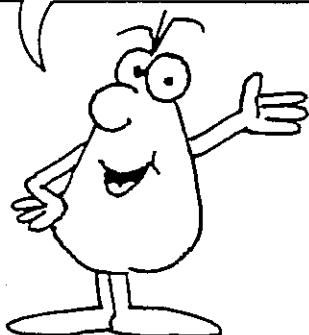
9 thousands . . . so tack on three zeros after the 9.

$$9000$$



TRY THESE IN YOUR HEAD.

Tack on trailing zeros.



1. 3×10

2. 7×100

3. 8×1000

4. 10×13

5. 23×100

6. 1000×11

7. 100×8

8. 7×1000

9. 1000×14

10. 10×162