

Name: Key
4th Grade Notes 4.1 Multiples of 10, 100, 1000 p. 197

-powers of ten are numbers that have a one only and end in zeros

Ex: 10; 100; 1,000; 10,000

-to mult. by a power of 10, add the number of zeros to that number

Ex: $10 \times 5 = 50$
one zero on each side

Ex: $100 \times 26 = 2,600$
2 zeros on each side

Ex: $2,326 \times 100,000 = 232,600,000$

This also works for multiples of 10. Multiply the numbers without zero and add the number of zeros to the answer. (Don't forget commas.)

Ex: $5 \times 70 = 350$
 $5 \times 7 = 35$
one zero

HW Ex: $3 \times 700 = 2,100$

Careful: $5 \times 600 = 3000$
 $5 \times 6 = 30$ this zero isn't one of the 2 zeros you add
2 zeros

If $3 \times 4 = 12$, then $30 \times 40 = 1,200$
4 stays the same

$12 \div 3 = 4$

1 zero + 1 zero = 2 zeros
same # of zeros on each side