Using Decimal Numbers

Number Value:	1		3		2		9
Place Value:	thousand's		hundred's		ten's		one's
Digit Index:	10^3		10^2		10^1		10^0
Number Value:	1	0 .	2		9		
Place Value:	ten's	one's	tenth's		hundredth's		
Digit Index:	10^1	10^0	10^{-1}		10^{-2}		

Figure 1: Table

The method (Decimal * Number)

Method One. The most effective method.

We want

$$1.8 * 8$$

Ignore the decimal point for now

$$18 * 8 = 144$$

Then because there is a number 8 in the tenth's place, you will move one decimal place to the left

$$144 = 14.4(answer)$$

Method Two. The monkey effective method.

We want

$$3.212 * 25$$

We know that

$$25 = 10 + 10 + 5$$

Then, using distrubtion -> $3.212(10 + 10 + 5)$

Step one: $3.212 * 10 = 32.12$

Step two: $3.212 * 10 = 32.12$

Step three: $3.212 * 5 = 16.060$

We add all of them

$$32.12 + 32.12 + 16.06 = 80.3(answer)$$

Examples

1. 1.8 * 23 = 18 * 23 = 41.4
2. 5.59 * 10 = 55.9
3. 5.59 * 100 = 559