

Relationships Between Digits in Numbers Notes

A digit in a certain place is worth 10 times as much as the same digit one place to the right.

If a digit is moved one place to the left, that digit will now be worth 10 times as much as before.

A 3 in the hundreds place is worth 10 times as much as a 3 in the tens place.

$$300 = 30 \times 10$$

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
	2	3	9.	6	4	
5,	3	1	6.	7		

A 6 in the ones place is worth 10 times as much as a 6 in the tenths place.

$$6 = 0.6 \times 10$$

A digit in a certain place is worth $\frac{1}{10}$ as much as the same digit one place to the left.

If a digit is moved one place to the right, that digit will now be worth $\frac{1}{10}$ as much as before.

An 8 in the hundreds place is worth $\frac{1}{10}$ the value of an 8 in the thousands place.

$$800 = \frac{1}{10} \times 8,000$$

$$800 = 8,000 \div 10$$

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
8,	1	5	7.	4	9	
	8	6	0.	2	4	3

A 4 in the hundredths place is worth $\frac{1}{10}$ the value of a 4 in the tenths place.

$$0.04 = \frac{1}{10} \times 0.4$$

$$0.04 = 0.4 \div 10$$