

# Placing the Value

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

A 8 in the hundreds place is worth  $\frac{1}{10}$  the size of a 8 in the thousands place.

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

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

| 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 size of a 4 in the tenths place.

$$0.04 = \frac{1}{10} \text{ of } 0.4$$

$$0.04 = 0.4 \div 10$$

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