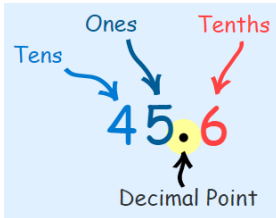


## What do I need to know about decimals?

1. **What is a decimal number?** A decimal number represents a number smaller than one. When we write numbers, where we place each digit is important because it tells you the value of what it is worth = Place Value.

The word "decimal" means "based on ten" (from Latin *decima*: a tenth part).

2. **What is a decimal point?** A point (small dot) is used to separate the whole number from the fractional part of a number. It separates the ones place from the tenths place.

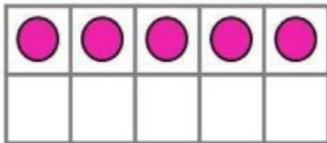


The numbers to the **LEFT** of the decimal point shows values greater than one.

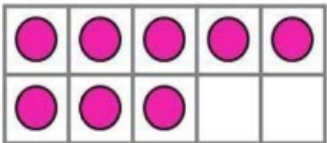
The numbers to the **RIGHT** of the decimal point shows values less than one.

We say "AND" when we read the decimal.

3. **Examples of tenths in a fraction and decimal of a whole.** They represent the same number but are written differently.

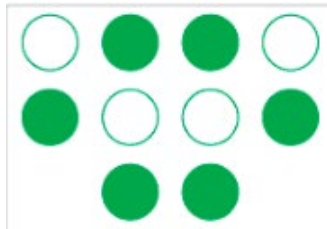


Fraction:  $\frac{5}{10}$     Decimal: 0.5

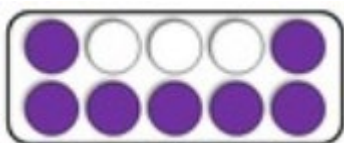


Fraction:  $\frac{8}{10}$     Decimal: 0.8

4. **Examples of tenths as a fraction and decimal of a set.** They represent the same number but are written differently.

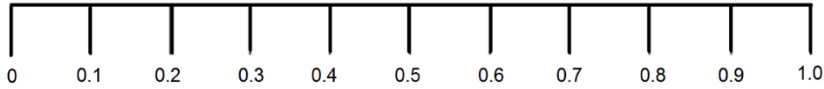


Fraction:  $\frac{6}{10}$     Decimal: 0.6

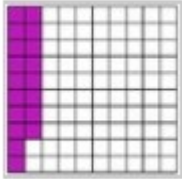


Fraction:  $\frac{7}{10}$     Decimal: 0.7

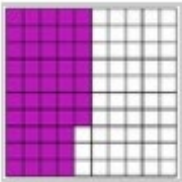
5. Example of tenths as a decimal in a linear model.



6. Examples of hundredths in a fraction and decimal of a whole. They represent the same number but are written differently.

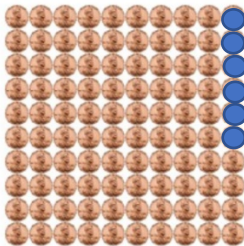


Fraction:  $\frac{18}{100}$     Decimal: 0.18



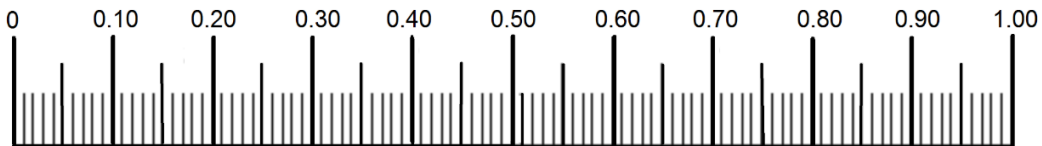
Fraction:  $\frac{47}{100}$     Decimal: 0.47

7. Example of hundredths in a fraction and decimal of a set. They represent the same number but are written differently.



Fraction:  $\frac{6}{100}$     Decimal: 0.06

8. Example of hundredths as a decimal in a linear model.



9. Place value to the hundredths place.

1	2	3	4	5	.	6	7
Ten Thousands	Thousands	Hundreds	Tens	Ones		Tenths	Hundredths