

# Decimals

## Math Words

- decimal
- decimal point

The system we use to write numbers is called the decimal number system. *Decimal* means that the number is based on tens.

Some numbers, like 2.5 and 0.3, include a decimal point. The digits to the right of the decimal point are the part of the number that is less than 1.

Here are some examples of decimal numbers you may know that are less than one.

$$0.5 = \frac{5}{10} = \frac{1}{2}$$

$$0.25 = \frac{25}{100} = \frac{1}{4}$$

Numbers such as 0.5 and 0.25 are sometimes called decimal fractions.

Some decimal numbers have a whole number part and a part that is less than 1, just as mixed numbers do.

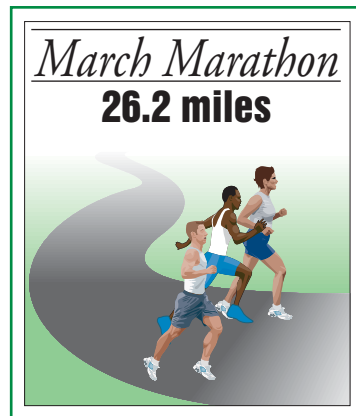
$$1.5 = 1\frac{5}{10} = 1\frac{1}{2}$$

$$12.75 = 12\frac{75}{100} = 12\frac{3}{4}$$

Here are some examples of the ways we use decimals everyday:



Derek bought  
0.5 pound of cheese.



The race is a little more  
than 26 miles.



The T-shirt costs  
a little less than \$10.



Write a decimal number that is . . . a little more than 5.

. . . almost 17.

. . . more than  $\frac{1}{2}$  and less than 1.