

4.1 Reading and Writing Decimals

Decimal Number is often used to mean a number that uses a decimal point followed by digits that show a value smaller than one.

Ex 1 Using the Decimal Form of Fractions

$$a) \frac{4}{10}$$

$$\cancel{0.04} \quad 0.4$$

$$b) \frac{9}{100}$$

$$0.09$$

$$c) \frac{832}{1000}$$

$$\cancel{0.00832}$$
$$\cancel{0.0832}$$

$$0.832$$

The decimal point separates the whole from the fractional part.

$$\frac{4}{10} \quad \frac{5}{1}$$

Decimal Place Value Chart													
Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	Decimal point	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred thousandths	Millionths
			3	6	8	4	•	2	6				

~~oneths~~

Place value to the right of the decimal represents the denominator

Ex 2 Identifying Place Value of Digit

a) 178.36

↑ hundreds ↑ tens ↑ ones ↑ tenths ↑ hundredths

b) 0.00935

thousandths: 9

hundred-thousandths: 5

1000
100,000

Ex 3 Reading Decimal Numbers

a) 0.49

hundredths

forty-nine hundredths

b) 0.918

thousandths

nine hundred
eighteen
thousandths

c) 0.0106

10,000

one hundred
six

ten-thousandths

Ex 4 Reading Decimal Numbers (w/ whole)

a) 16.9

andSixteen and nine
tenths

b) 482.35

four hundred eighty two
and thirty five hundredths

Ex 5 Writing Decimals as Fractions/Mixed Numbers

a) 0.19
 hundredths

$$\frac{19}{100}$$

b) 4.083
 thousandths

$$4 \frac{83}{1000}$$

Ex 6 Writing Decimals as Fractions/Mixed Numbers
(Lowest Terms)

a) 0.4

$$\frac{4 \div 2}{10 \div 2} = \frac{2}{5}$$

b) 0.75

$$\frac{75 \div 25}{100 \div 25} = \frac{3}{4}$$

c) 18.105

$$18 \frac{105 \div 5}{1000 \div 5} = 18 \frac{21}{200}$$

4.1 Checkin

#1 Write as a fraction
a) 0.03 b) 0.851

#2 Identify the place value of each digit
a) 5.603

#3 Write each decimal in words
a) 0.46 b) 0.0703

#4 c) 3.8 d) 15.018

#5 Write as fraction/mixed #
a) 12.21 b) 0.101

#6 c) 0.85 d) 3.05

4.1 Checkin

#1 Write as a fraction
a) 0.03 $\frac{3}{100}$ b) 0.851 $\frac{851}{1000}$

#2 Identify the place value of each digit
a) 5.603
ones, tenths, hundredths, thousandths

#3 Write each decimal in words
a) 0.46 b) 0.0703
forty six hundredths seven hundred three ten thousandths

#4 c) 3.8 d) 15.018
three and eight tenths 15 and eighteen thousandths

#5 Write as fraction/mixed #
a) 12.21 $12\frac{21}{100}$ b) 0.101 $\frac{101}{1000}$

#6 c) 0.85 $\frac{17}{20}$ d) 3.05 $3\frac{1}{20}$

P1

#1, 4, 7, 10

13, 14, 19-23

41-45 odds

52-58, 61, 62

65, 66