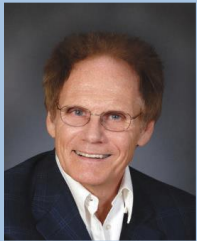


We are transitioning to the new UMATH XI

The “U” in UMATH X and UMATH XI ... is ... “UNDERSTANDING”



R. NEUFELD—Author



R. MEEKINS - NYC



J. HASTINGS . OH



N Beights
FL



P Seda
Atlanta Math



webinar/workshop
following UMATH X Learning Resources are available as we transition to new UMATH XI:

- [Support Sheets](#) (with Solutions)
- [Frameworks](#) for Learning (some with answers)
- [Interactive Videos](#) at www.umathx.com in 6,7
- [Previous versions of UMATH X K to 10](#) (available to some)
 1. Click to download: [Understanding Numeration](#) ... gr K to 3
Serial Number: **3-B18652928-465**
 2. Click to download: [Understanding Math](#) ... gr 4 to 10
Serial Number: **5-B17611264-681**

Setting up .. “The Learning Environment

1. **UMATH X** What is it? Play video at .. www.umathX.com

FOR AN INTRODUCTION to this lesson, we suggest that you access the

- **Understanding Fractions Section 5 in UMATH X 2008**

le .. to Section 5: Introduction to Decimal ..access available to some.

This circle is cut into **10 equal** parts.

4 of these parts are shaded **red**.

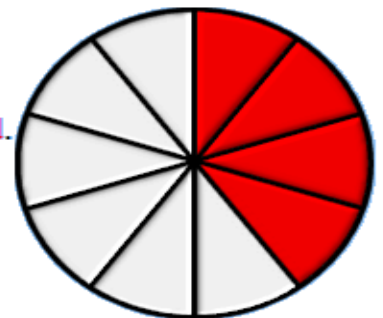
We write...

4 out of **10** equal parts of the circle are **red**.

Four Tenths of the circle is **red**.

$\frac{4}{10}$ of the circle is **red**.

0.4 of the circle is **red**. (as a decimal.)



- **Support Sheets** .. Section 5 - Introduction to Decimals #1, 2, 3

Framework for Learning

Decimals To Tenths

Leader's Name: _____

Co-Leader's Name: _____

Instructor's Initials: _____

Getting Started:

Log into **UMATHX** (if you do not have access to UMathX or XI continue below)

From the **Content Menu**, follow the path below:

Fractions> Section 5: **Introduction to Decimals**> **Ones, Tenths, Hundredths, Thousandths**
Decimals to Tenths

Select and complete Lessons: **Example 1** and **Example 2**

As you work through the lessons, complete the corresponding notes below. Use colored pencils to color code the extensions of the patterns.

Example 1



The large square is divided into _____ equal parts.

_____ of these parts are shaded **red**.

We think: _____ out of _____ equal parts are **red**.

We say: _____ are **red**.

$\frac{\square}{\square}$ of the square is **red**.

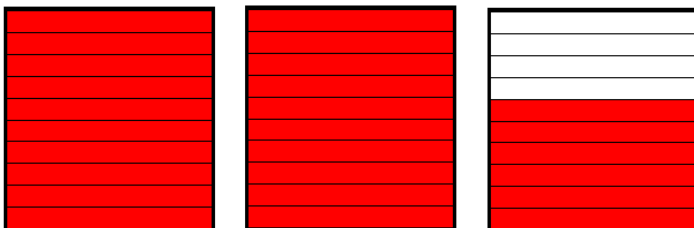
We write:

Ones	Tenths

There are _____ ones.

There are _____ tenths.

Example 2



Each rectangle is divided into _____ equal parts.

We think: _____ whole squares are shaded **red**.

_____ parts of the other square are **red**.

We say: _____ and _____ are **red**.


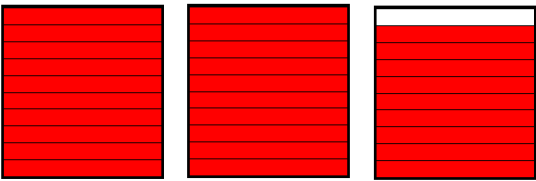
We write:

Ones	Tenths

$\frac{\square}{\square}$ of the squares are **red**.

There are _____ ones and _____ tenths.

Working In It: Complete the following.

Model	Word Name	Decimal
		
	two tenths	
	one and five tenths	
		1.7
		2.4
		

Compare your answers to the above with a partner. **Discuss and correct** any mistakes.

Reflect & Connect:

Draw models for two decimal numbers on a sheet of graph paper. **Exchange** papers with a partner and require him/her to **write** the name of each decimal representation in words and in numbers. **Discuss and correct** any mistakes before turning in your work to your teacher.

Getting Started:

Log into **UMathX** (if you do not have access to UMathX or XI continue below)

From the **Content Menu**, follow the path below:

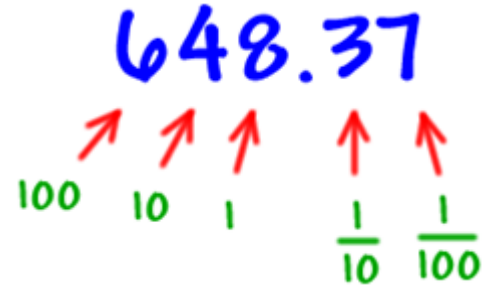
Fractions> Section 5: Introduction to Decimals>

Expanded Notation> To Hundredths

Select and complete Lessons: **Example 1**

Example 2

As you work through the lessons, complete the corresponding notes below.



Example 1 ... for 648.37

We think:

Hundreds	Tens	Ones	.	Tenths	Hundredths

We write:

$$\underline{\quad} \times 100 + \underline{\quad} \times 10 + \underline{\quad} \times 1 + \underline{\quad} \times \frac{1}{10} + \underline{\quad} \times \frac{1}{100}$$

Check:

+ _____

Example 2 ... Pick an example of your choice...

Work through the following with a partner.

We think:

Hundreds	Tens	Ones	.	Tenths	Hundredths

We write:

$$\underline{\quad} \times 100 + \underline{\quad} \times 10 + \underline{\quad} \times 1 + \underline{\quad} \times \frac{1}{10} + \underline{\quad} \times \frac{1}{100}$$

Check:

+ _____
