



The Voyage

(Beginning stages of concept development in fraction and decimal conversions)

Jason St John, ITI 693, Assignment 7

Docking Station (Navigation Menu)

If you get lost at sea, click the ship to return to the dock.



Place Value Review

Review of prior
knowledge in place value



Place Value Games

Place value review
practice



Ahoy Tenths!

Introduction to tenths
place value



Ahoy Hundredths!

Introduction to
hundredths place value



Decimals

Introduction to decimals



Decimal Practice

Decimal concept
development practice





Place Value Review

- Review: PPlace value! Each digit has a place, and each of those places has a value. Glance over at the place value chart to the right to refresh your memory before tackling these review examples.
- For example, the number 345 has three digits with three different values. The 3 is worth 300, the 4 is worth 40, and the 5 is worth 5.
- Using the place value chart to the right, find out the value of the underlined digit.
- 914
- 279
- 316



If you need more help, watch this video!

hundreds	tens	ones



Place Value Games

Instructions: Drag the correct underlined value in the correct area!

13



342



304



491



213



629



563



Ones

128

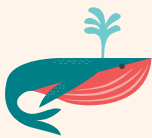


Tens

Hundreds

927





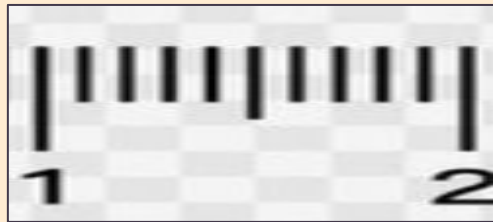
Ahoy Tenthths!



- There are actually more place values that come before the ones place, and these digits are **SMALLER** than one.
- Ahoy tenths place value! When you see the word **TENThs**, what word stands out? Ten! That's right. It takes ten tenths in order to make one whole number!
- These are the same tenths that we have been practicing with fractions! $1/10$ is what a tenth looks like as a fraction.
- Think of an apple cut into ten pieces. One piece of the apple is one tenth, what would 3 pieces of the apple be? 3 tenths good job!
- Watch the video on the right explaining more on tenths and how they work together to make a whole number.



How many spaces are between the 1 and 2 on this number line? 10! Each of these ticks would be one tenth.



Write as a decimal.

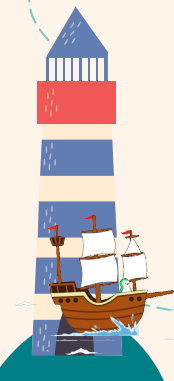


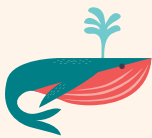
$$\frac{6}{10}$$

$$+$$

Ones	Tenths

matholia



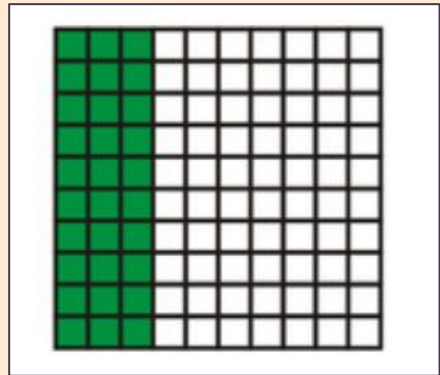


Ahoy Hundredths!

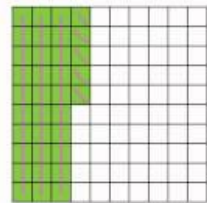


- The next place value that comes after the tenths is the hundredths place, and these are even smaller than tenths!
- In the word HUNDREDths, what word sticks out? Hundred! It takes one hundred hundredths in order to make one whole number.
- Hundredths and tenths have some digits that are equivalent. Say we got that apple we cut into ten pieces, and cut it 10 more times in the other direction. Now we have 100 pieces of apple right? If I take 10 pieces, I have ten hundredths, but guess what? Ten hundredths is the same thing as one tenth since 10 goes into 100 ten times!
- Watch the video on the right for more!

We have 30 hundredths shaded in the area model, which is equivalent to 3 tenths.



Write as a decimal.



Ones	Tenths	Hundredths

matholia

Decimals



Use these resources to help understand decimals and place value! Click on the picture to go to the link!

- Ahoy decimals! We have been working with fractions, now we're going to learn how to write tenths and hundredths in decimal form.
- The decimal point comes right after the ones place value, and the next place is the tenths, followed by the hundredths.
- Let's practice writing these in decimal form!
- 1 and 3 tenths
- 4 and 15 hundredths

Ones	Decimal point	Tenths	Hundredths

Decimal Place Value Chart						
hundreds	tens	ones	decimal point	tenths	hundredths	thousandths
			.			

100





Decimal Practice

Instructions: click and drag to sort the numbers with tenths and hundredths in the correct areas!

Tenths

Hundredths

10.12

13.6

1.91

3.45

11.04

15.48

5.5

4.2

1.23

7.9

14.2

6.5

2.08

9.8

8.1

12.05

