

# Concept: Introduction to Decimals

Name: \_\_\_\_\_

## COMPUTER COMPONENT

**Instructions:** In follow the **Content Menu** path:  
**Fractions > Introduction to Decimals**

Work through all Sub Lessons of the following Lessons **in order**:

- *Introduction to Decimals*
- *Ones, Tenths, Hundredths, Thousandths*
- *Understanding Place Value*
- *Equivalent Decimals*
- *Estimation on a Decimal line*
- *Comparing Decimals*
- *Ordering Decimals*
- *Rounding Decimals*

As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

## OFF COMPUTER EXERCISES

1. Demonstrate your superior knowledge of decimals in the spaces provided.



\_\_\_\_\_ and \_\_\_\_\_ or \_\_\_\_\_ or \_\_\_\_\_

Tens	Ones	Tenths
		●



\_\_\_\_\_ and \_\_\_\_\_ or \_\_\_\_\_ or \_\_\_\_\_

Ones	Tenths
	●

(c) Follow the instructions below to complete this activity. *(The first one is done for you)*



Write the number 3.2. Circle the number that is 2 tenths greater than 3.2.

- Write the number 5.3. Circle the number that is 3 tenths less than 5.3.
- Write the number 0.6. Circle the number that is 3 tenths greater than 0.6.
- Write the number 4.1. Circle the number that is 1 tenth less than 4.1.
- Write the number 2.4. Circle the number that is 2 tenths greater than 2.4.

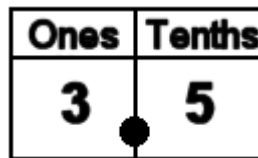
2. Fill in the fractions and decimals, in words and numerals. *(The first one is done for you)*

(a) 4 large squares are divided into 10 smaller parts each. 3 whole large squares are shaded and 5 parts in the other square are shaded.

Three and five tenths are shaded.

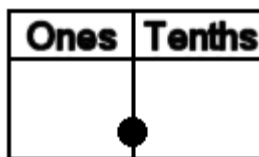
$$3\frac{5}{10}$$

$$\underline{3.5}$$



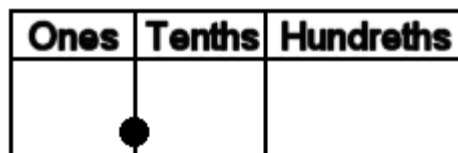
(b) 5 large squares are divided into 10 smaller parts each. 4 whole large squares are shaded and 7 parts of the other square are shaded.

\_\_\_\_\_ are shaded.



(c) 4 large squares are divided into 100 smaller parts each. 3 whole large squares are shaded and 1 part of the other square is shaded.

\_\_\_\_\_ are shaded.



(d) 3 large squares are divided into 1000 smaller parts each. 2 whole large squares are shaded and 459 parts of the other square are shaded.

\_\_\_\_\_ are shaded.

\_\_\_\_\_

Ones	Tenths	Hundredths	Thousandths
	●		

3. Fill in the fractions and decimals, in words and numerals. (The first one is done for you)

(a) 821 parts out of 1000 are shaded.

\_\_\_\_\_

Ones	Tenths	Hundredths	Thousandths
	●		

\_\_\_\_\_ tenths, \_\_\_\_\_ hundredths and \_\_\_\_\_ thousandths altogether equal \_\_\_\_\_ thousandths.

(b) 47 parts out of 100 are shaded.

\_\_\_\_\_

Ones	Tenths	Hundredths
	●	

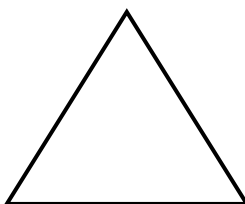
\_\_\_\_\_ tenths and \_\_\_\_\_ hundredths altogether equal \_\_\_\_\_ hundredths.

4. Assume that each region represents 1. *Shade the appropriate part to show the approximate quantity.*

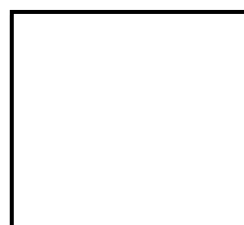
(a) 0.32



(b) 0.85

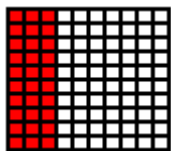


(c) 0.02



5. Fill in the fractions and decimals in the blanks provided.

(a)



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ is shaded

\_\_\_\_\_ is shaded

\_\_\_\_\_ and \_\_\_\_\_ are equivalent decimals.

(b)



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ is shaded

\_\_\_\_\_ is shaded

\_\_\_\_\_ and \_\_\_\_\_ are equivalent decimals.

**Circle the equivalent.**

(c) 4 tenths is equivalent to:    400 thousandths    400 hundredths    40 thousandths

(d)  $\frac{40}{1000}$  is equivalent to:     $\frac{4}{1000}$      $\frac{4}{1000}$      $\frac{4}{10}$

6. Estimate and mark the appropriate spot on the decimal number line.

(a) 0.35



(b) 0.75



(c) 0.9



7. Write a “>” or “<” sign to make the statement true. (*The first one is done for you*)

(a)  $7.12 > 7.11$

(b)  $1.238 \underline{\hspace{1cm}} 1.228$

(c)  $5.689 \underline{\hspace{1cm}} 6.124$

(d)  $0.8 \underline{\hspace{1cm}} 0.12$

(e)  $4.17 \underline{\hspace{1cm}} 4.7$

(f)  $2.145 \underline{\hspace{1cm}} 2.15$

(g)  $7.321 \underline{\hspace{1cm}} 8.965$

(h)  $0.3 \underline{\hspace{1cm}} 0.03$

***When we are ordering any set of numbers, we always start with the digits furthest to the left on the place value chart.***

8. From *left to right*, order these decimals from *smallest to largest*.

(a) 9.3    7.65    0.98    0.4    8.01    1.02

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(b) 3.564    5.003    5.1    0.02    9.59    0.1    8.99

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9. From *left to right*, order these decimals from *largest to smallest*.

(a) 2.8    6.538    0.09    4.73    2.98    1.99

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(b) 9.003    3.90    8.769    0.56    3.91    5.67    1.893

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10. Circle the correct answer or fill in the blanks.

(a) Is 1.8 closer to 1 or 2?

(b) Is 2.19 closer to 2.2 or 2.1?

(c) Is 7.583 closer to 7.59 or 7.58?

(d) Is 6.498 closer to 6.50 or 6.49?

(e) 2.86 rounded to the nearest tenth is \_\_\_\_\_

(f) 5.618 rounded to the nearest hundredth is \_\_\_\_\_

(g) 9.299 rounded to the nearest hundredth is \_\_\_\_\_

(h) If we have 2.65 we round to \_\_\_\_\_

(i) If we have 8.355 we round to \_\_\_\_\_