

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.

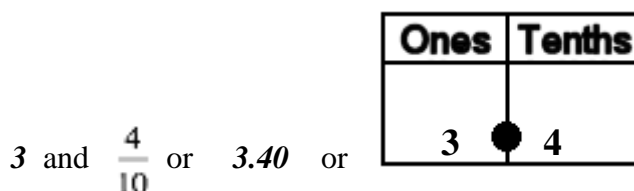
OFF COMPUTER EXERCISES

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

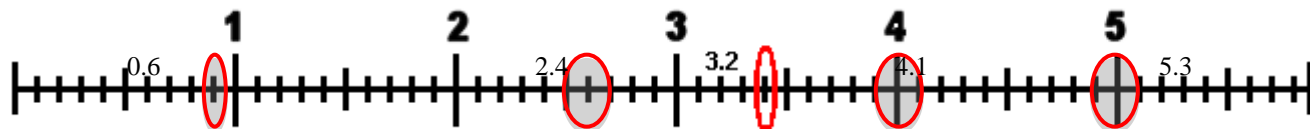


11 and $\frac{4}{25}$ or **11.16** or

Tens	Ones	Tenths	Hundredths
1	1	1	6



(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.

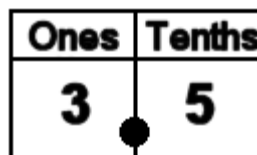
2. Fill in the fractions and decimals, in words and numerals. (*The first one is done for you*)

(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.

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

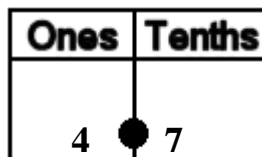
$$\underline{3.5}$$



(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.

47 squares are shaded.

$$4\frac{7}{10} = 4.7$$



(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.

301 red squares are shaded.

$$3\frac{1}{100} = 3.01$$

Ones	Tenths	Hundredths
3	0	1

(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.

2459 squares are shaded.

$$2\frac{459}{1000} = 2.459$$

Ones	Tenths	Hundredths	Thousandths
2	4	5	9

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.

$$\frac{821}{1000} = 0.821$$

Ones	Tenths	Hundredths	Thousandths
	8	2	1

8 tenths, 2 hundredths and 1 thousandths altogether equal 821 thousandths.

(b) 47 parts out of 100 are shaded.

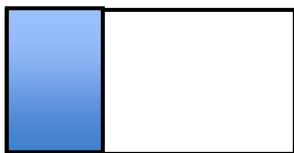
$$\frac{47}{100} = 0.47$$

Ones	Tenths	Hundredths
	4	7

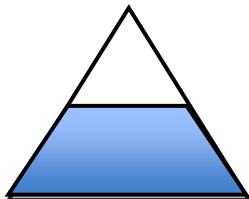
4 tenths and 7 hundredths altogether equal 47 hundredths.

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

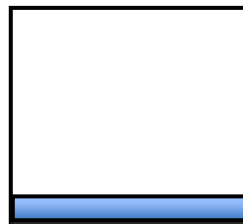
(a) 0.32



(b) 0.85



(c) 0.02



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

(a)



30 red

$\frac{30}{100}$ is shaded



3 red

$\frac{3}{10}$ is shaded

$\frac{30}{100}$ (0.30) and $\frac{3}{10}$ (0.30) are equivalent decimals.

(b)



7 red

$\frac{7}{10}$ is shaded



70 red

$\frac{70}{100}$ is shaded

$\frac{7}{10}$ (0.70) and $\frac{70}{100}$ (0.70) 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: $\frac{4}{1000}$ $\frac{4}{100}$ $\frac{4}{10}$

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

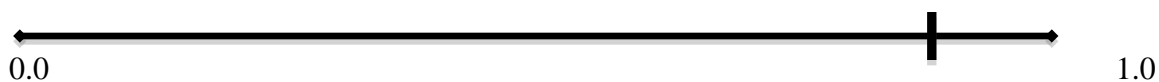
(a) 0.35



(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 > 1.228

(c) 5.689 < 6.124

(d) 0.8 > 0.12

(e) 4.17 < 4.7

(f) 2.145 < 2.15

(g) 7.321 < 8.965

(h) 0.3 > 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

0.4 0.98 1.02 7.65 8.01 9.3

(b) 3.564 5.003 5.1 0.02 9.59 0.1 8.99

0.02 0.1 3.564 5.003 5.1 7.65 8.01

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

6.538 4.73 2.98 2.8 1.99 0.09

(b) 9.003 3.90 8.769 0.56 3.91 5.67 1.893

9.003 8.769 5.67 3.91 3.90 1.893 0.56

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 2.9.

(f) 5.618 rounded to the nearest hundredth is 5.62

(g) 9.299 rounded to the nearest hundredth is 9.3

(h) If we have 2.65 we round to 2.7

(i) If we have 8.355 we round to 8.4