

Concept: Percents... Fractions... Decimals

Name: _____


COMPUTER COMPONENT

Instructions: In  follow the **Content Menu** path:

Fractions > Percents... Fractions... Decimals

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

- *Expressing a Percent as a Fraction*
- *Expressing a Percent as a Decimal*
- *Number Line #1*
- *Decimal Strips*
- *Expressing a Decimal as a Percent*
- *Expressing a Fraction as a Percent*
- *Number Line #2*
- *Chart*
- *Order Fractions, Decimals and Percents*

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

NOTES

1. *Fill in the blanks and 'circle' the correct response.*

Percent means per _____ which means per _____.

What does GCF stand for? _____.

The GCF for 24 and 36 is ... 4, 6, 8 or 12 (*Circle one*)

The GCF for 42 and 54 is _____.

2. *When converting Percent to Fractions, your percentage is always out of 100.*

Example: 50 % means 50 per 100

$$\therefore 50 \% = \frac{50}{100}$$

You try:

(a) Express 40% as a fraction.

40% means _____ per 100

$$\therefore 40\% = \frac{\quad}{100}$$

(b) Express 95% as a fraction.

95% _____ per 100

$$\therefore 95\% =$$

(c) Express 15% as a fraction.

3. To express a Percent as a Decimal, we need to divide by 100.

We can achieve this in two ways:

We can simply move the decimal place _____ to units to the _____.

OR

We can calculate the decimal by dividing the percent by _____ in a long- division question.

Convert the following percents to decimals. (Try both methods for the first two and use the strategy you prefer for the remaining two)

(a) 75%

Method 1

Method 2

(b) 26%

Method 2

Method 2

(c) 58%

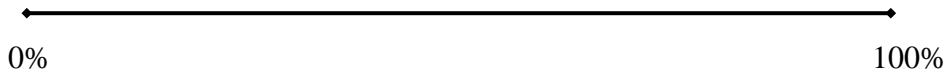
(d) 99%

(e) Which method do you prefer? Why? _____

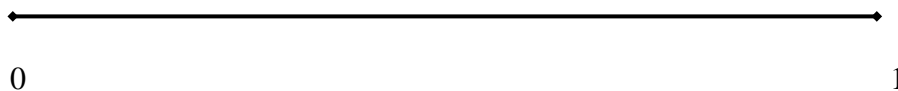
Number lines can give you a visual representation of the direct comparison between Percents, Decimals and Fractions.

4. Fill in the following number lines by using the computer to help you.

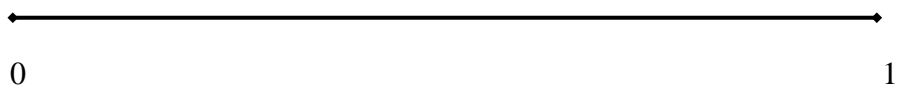
Percent Representation



Decimal Representation



Fraction Representation



5. When expressing a decimal as a percent, we need to multiply by 100.

We can achieve this in two ways:

We can simply move the decimal place _____ units to the _____.

OR

We can calculate the percent by multiplying the decimal by _____ in a multiplication question.

Convert the following decimals to percents. (Try both methods for the first two and use the strategy you prefer for the remaining two)

(a) 0.87 Method 1 Method 2

(b) 0.25 Method 1 Method 2

(c) 0.90

(d) 0.53

(e) Which method do you prefer? Why? _____

6. *There are two methods we can use when expressing a Fraction as a Percent*

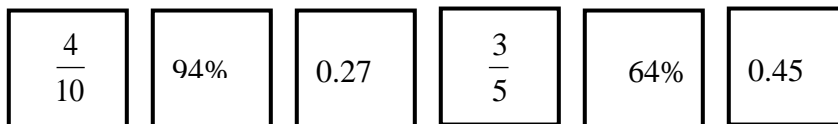
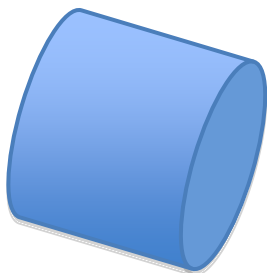
(use the computer to help you here)

Method 1: $\frac{11}{20}$

Method 2: $\frac{11}{20}$



7. *Percent, Fraction and Decimal tiles have been poured out of this cup.*



Arrange these values from Largest to Smallest. *You may use your number lines to assist you.*

_____, _____, _____, _____, _____, _____

OFF COMPUTER EXERCISES

1. Fill in the missing values in the chart.

Fraction	Decimal	Percent
$\frac{4}{5}$		
		45 %
	0.91	
	0.295	
$\frac{1}{10}$		
		100 %
$\frac{24}{25}$		
	0.85	

2. Tiffany earns \$100 a week. She spends \$15 each week on movie rentals.
What percentage of Tiffany's weekly pay is spent on renting movies?

3. In a college class of 100 students, 18 % of the students were absent.
Express the number of absences as a fraction.

4. Of the 28 people on the school soccer team, 16 of the players have brown eyes.

(a) Express this number as a percent.

(b) Express this number as a decimal.

5. Sam has 22 hours of spare time each week. He spends 9.5 hours of that each week playing video games.

(a) Express that number as a fraction (hint: use an equivalent fraction).

(b) Express that number as a decimal.
