

Name: _____

Core: _____

**Homework: Fractions, Decimals, & Percent
Due February 22nd**

Classwork:

To convert a fraction to a decimal , there are two easy ways!

1. The easiest way is to find an _____ fraction with a _____ of ____ or _____.

Example: Convert $\frac{12}{20}$ to a decimal.

2. If you have a _____, just divide the _____ by the _____.

Example: Convert $\frac{3}{8}$ to a decimal.

To convert from decimal to percent : multiply by 100, and add a "%" sign.

The easiest way to multiply by 100 is to move the decimal point 2 places to the right:

Example 1: $0.60 \times 100 =$

Example 2: $0.325 \times 100 =$

Example 3: $1.657 \times 100 =$

To convert from percent to decimal : divide by 100, and remove the "%" sign.

The easiest way to divide by 100 is to move the decimal point 2 places to the left:

Example 1: $60 \% \div 100 =$

Example 2: $32.5 \% \div 100 =$

Example 3: $165.7 \% \div 100 =$

How would you convert a percent to a fraction?

Convert the following percentages to fractions using your method.

33 %

120 %

12.5 %

Homework Problems:

Exercise 1

The shaded portion of the grid below represents the portion of a sheet cake remaining from Keyanna's Birthday Party.

What percent does each piece of cake represent?

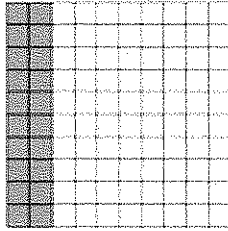
What percent of the sheet cake remains for Keyanna to eat?

How else can we write how much sheet cake remains?

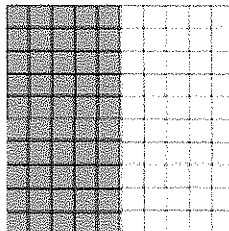
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Exercise 2

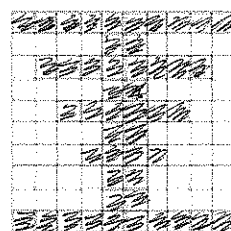
a.



b.



c.

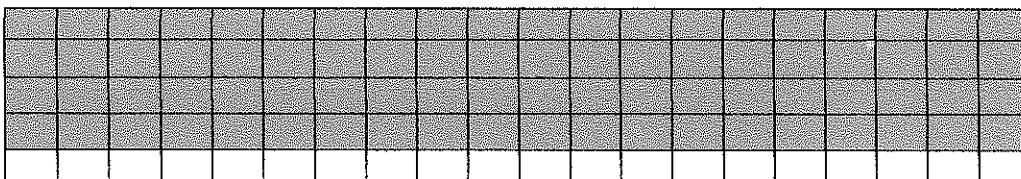


For each figure shown, represent the gray shaded region as a percent of the whole figure.

Picture (a)	Picture (b)	Picture (c)
Fraction	Fraction	Fraction
Decimal	Decimal	Decimal
Percent	Percent	Percent

Exercise 3

Te'myaia claims that a score of 80% means that she answered $\frac{4}{5}$ of the problems correctly. She drew the following picture to support her claim:

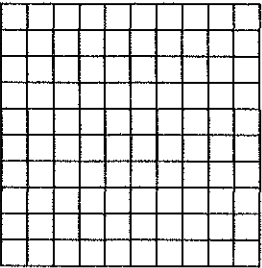

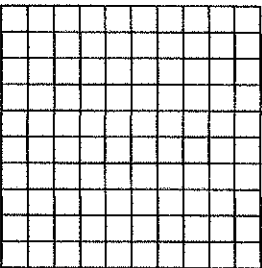



Is Te'myaia correct? _____ Why or why not?

How would you change Te'myaia's picture so it was easier to see if she was correct or incorrect?

Exercise 4:

Each relationship below compares the shaded portion (the part) to the entire figure (the whole). Complete the table.

Percentage	Decimal	Fraction	Ratio {parts to whole}	Model
6%			6: 100	
60%				
600%				
	0.55			
		$\frac{9}{10}$		
			3 out of 5	
				

Advanced Learners Problem Set:

Exercise 5

Use the tape diagram to answer the following questions.



80% is what fraction of the whole quantity?

$\frac{1}{5}$ is what percent of the whole quantity?

50% is what fraction of the whole quantity?

1 is what percent of the whole quantity?

Exercise 6

Matthew completed $\frac{5}{8}$ of his workday. What decimal describes the portion of the workday he has finished?

How can you use the decimal to get the percent of the workday Matthew has completed?

Exercise 7

Complete the conversions from fraction to decimal to percent.

Fraction	Decimal	Percent
$\frac{1}{8}$		
	0.35	
		84.5%
	0.325	
$\frac{2}{25}$		