

Converting to Different Forms:

<p style="text-align: center;"><u>Decimal to Fraction</u></p> <p>Write the decimal over the place value of the <u>last digit</u>. Then <u>simplify</u>.</p> <p>ex: 0.45 5 is in the hundredths place, so <math>\frac{45}{100} = \frac{9}{20}</math></p>	<p style="text-align: center;"><u>Fraction to Decimal</u></p> <p>Divide the <u>numerator</u> by the <u>denominator</u>.</p> <p>ex: <math>\frac{5}{6}</math> <span style="margin-left: 20px;"><math>\frac{0.8\bar{3}}</math></span></p> $\begin{array}{r} 6 \overline{)5.00} \\ \underline{48} \phantom{00} \\ 20 \\ \underline{18} \\ 2 \end{array}$
<p style="text-align: center;"><u>Decimal to Percent</u></p> <p>Move the decimal point <u>2</u> places to the <u>right</u>.</p> <p>ex: 0.3 <math>0.30 = 30\%</math></p>	<p style="text-align: center;"><u>Percent to Decimal</u></p> <p>Move the decimal point <u>2</u> places to the <u>left</u>.</p> <p>ex: 67.5% <math>0.675 = 67.5\%</math></p>
<p style="text-align: center;"><u>Fraction to Percent</u></p> <p>Set up a proportion by setting the fraction equal to the percent (variable) over <u>100</u>. Then solve.</p> <p>ex: <math>\frac{5}{8}</math> <math>\frac{5}{8} = \frac{x}{100} \rightarrow 8x = 500 \rightarrow x = 62.5\%</math></p>	<p style="text-align: center;"><u>Percent to Fraction</u></p> <p>Write the percent over <u>100</u>. Then <u>simplify</u>.</p> <p>ex: 24% <math>\frac{24}{100} = \frac{6}{25}</math></p>

Examples:

I. Fill in missing information in the chart below by converting the given number:

	Percent	Decimal	Fraction
a.	62%	0.62	$\frac{31}{50}$
b.	8.4%	0.084	$\frac{21}{250}$
c.	53.3%	0.53	$\frac{8}{15}$

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

How to change a decimal to a percent:

1.

1.7	
.81	
.869	
1.63	
.586	

How to Change a percent to a decimal

1.

191%	
13%	
67.3%	
145%	
82%	

### How to change a Fraction to a Decimal

1.

$13/16$	
$3/8$	
$7/25$	
$2/5$	
$3/7$	

### How to change a Decimal to a Fraction

1.

2.

.12	
1.37	
.74	
.65	
1.29	

### How to change a Percent to a Fraction

- 1.
- 2.

124%	
33%	
38%	
87%	
22%	

### How to change a Fraction to a Percent

- 1.
- 2.

$31/20$	
$3/10$	
$1/5$	
$7/9$	
$20/25$	

Name \_\_\_\_\_

Date \_\_\_\_\_

# Fractions, Decimals & Percents

Solve each problem. Find your answer in one of the three answer boxes. Find the problem number on the coloring page and color each section with the color that corresponds to your answer.

*		ANSWER 1	ANSWER 2	ANSWER 3
1	Re-write $\frac{3}{8}$ as a percent.	37.5% ORANGE	38% RED	37% PINK
2	Re-write 0.82 to a fraction in simplest form.	$\frac{82}{100}$ BLUE	$\frac{41}{50}$ GREEN	$\frac{8}{2}$ YELLOW
3	Re-write $\frac{5}{6}$ as a decimal.	0.833 BLUE	0.56 PURPLE	0.8 PINK
4	Re-write 0.04 as a percent.	4% RED	40% PURPLE	0.4% ORANGE
5	Re-write 20% as a fraction in simplest form.	$\frac{20}{100}$ BROWN	$\frac{1}{20}$ BLACK	$\frac{1}{5}$ PINK
6	Re-write 152% as a decimal.	0.152 WHITE	15.2 ORANGE	1.52 BLACK
7	Order from least to greatest: $\frac{1}{4}$ , 32%, 0.4	$\frac{1}{4}$ , 32%, 0.4 BROWN	32%, $\frac{1}{4}$ , 0.4 RED	0.4, 32%, $\frac{1}{4}$ WHITE
8	Order from least to greatest: 15%, 0.015, $\frac{1}{5}$	15%, $\frac{1}{5}$ , 0.015 ORANGE	15%, 0.015, $\frac{1}{5}$ PINK	0.015, 15%, $\frac{1}{5}$ PURPLE
9	Order from greatest to least: 1.62, 16.2%, $\frac{15}{20}$	$\frac{15}{20}$ , 16.2%, 1.62 YELLOW	1.62, 16.2%, $\frac{15}{20}$ RED	1.62, $\frac{15}{20}$ , 16.2% GREEN
10	Order from greatest to least: $\frac{17}{20}$ , 75%, 0.8	$\frac{17}{20}$ , 0.8, 75% YELLOW	75%, $\frac{17}{20}$ , 0.8 BROWN	0.8, 75%, $\frac{17}{20}$ PURPLE
11	Order from least to greatest: 0.14, $\frac{1}{8}$ , 1.9%	0.14, 1.9%, $\frac{1}{8}$ PINK	$\frac{1}{8}$ , 0.14, 1.9% BLACK	1.9%, $\frac{1}{8}$ , 0.14 BLUE
12	Order from greatest to least: $\frac{2}{3}$ , 66%, 0.67	0.67, $\frac{2}{3}$ , 66% WHITE	66%, 0.67, $\frac{2}{3}$ RED	66%, $\frac{2}{3}$ , 0.67 BLACK

