

6.RP.3c (ALT 3) – Converting Between Fractions, Decimals, and Percents

Section 1: Convert between Fractions and Decimals.

- Fraction to a Decimal**

Divide the numerator by the denominator. $\frac{3}{5} = 3 \div 5 = 0.6$

Student Notes

- Decimal to a Fraction**

Convert 2.125 to a fraction.

Write the whole number, if there is one.

$$2.125 \quad 2 -$$

Place all digits to the right of the decimal point in the numerator.

$$2.\underline{125} \quad 2 \frac{125}{1000}$$

Name the last digit's place value and place this in the denominator.

$$2.125 \quad 2 \frac{125}{1,000} \quad \text{Simplify if needed: } 2 \frac{1}{8}$$

Guided Practice

Directions:

Convert each fraction to a decimal.

Convert each decimal to a fraction.

$$\frac{4}{5} \quad 4 \frac{21}{25} \quad 3.18 \quad .6$$

F	D	P
$\frac{4}{5}$.8	
$4 \frac{21}{25}$	4.84	
$3 \frac{18}{100} = 3 \frac{9}{50}$	3.18	
$\frac{6}{10} = \frac{3}{5}$.6	

You Try

Find each missing decimal.

F	D	P
$\frac{18}{5}$	3.6	
$\frac{3}{8}$.375	
$\frac{2}{5}$.4	
$7 \frac{12}{15}$	7.8	
$3 \frac{25}{100} = 3 \frac{1}{4}$	3.25	
$\frac{6}{10} = \frac{3}{5}$.6	
$\frac{112}{1000} = \frac{14}{125}$.112	
$12 \frac{4}{10} = 12 \frac{2}{5}$	12.4	

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Section 2: Convert between Decimals and Percents.

- Decimal to a Percent

Multiply by 100 or simply Move the decimal two places to the right.

Add zero place holders if necessary.

Add % sign.


$$0.125 = 12.5\%$$


- Percent to a Decimal

Divide by 100 or simply Move the decimal two places to the left.

Add zero place holders if necessary.

Remove % sign.

$$9.2\% = .092$$


Guided Practice

Directions:

Convert each decimal to a percent.

Convert each percent to a decimal.

.89 1.3 .4% 21.7%

F	D	P
	.89	89%
	1.3	130%
	.4	40%
	.217	21.7%

You Try



Find each missing percent.

F	D	P
	.04	4%
	.22	22%
	.105	10.5%
	1.7	170%
	.7	70%
	.03	3%
	.8	80%
	.245	24.5%
	.092	9.2%