Decimal

to

FRACTION

**. 5 🡪** $\frac{1}{2}$

PERCENT

to

DECIMAL

**50% 🡪 . 5**

FRACTION

to

DECIMAL

$\frac{1}{2}$ **🡪. 5**

Decimal

to

PERCENT

**. 5 🡪50%**

PERCENT

to

FRACTION

**50% 🡪** $\frac{1}{2}$

FRACTION

to

PERCENT

$\frac{1}{2}$ **🡪 50%**

**Decimal to Percent D 🡪 P**

**Step 1-** Move the decimal to the **RIGHT** **two places**

 (the same as multiplying by 100).

 **Ex:** .47 = 47.

**Step 2-** Add the percent symbol.

 **Ex:** 47. = 47**%**

**Percent to Fraction**

**Step 1-** Write the percent as the **numerator** & **100** as the **denominator.**

 **EX: 45% =** $\frac{45}{100}$

**Step 2**- Reduce/Simplify. **EX:** $\frac{45}{100}$ **÷** $\frac{5}{5}$ **=** $\frac{9}{20}$ So, **45%** = $\frac{9}{20}$

\*\*\*If the fraction has a decimal in the numerator, follow step 1, then:

**Step 2**- move the decimal to the right to get it out of the numerator.

 **EX:** 1.25% = $\frac{1.25}{100}$ = $\frac{125. (moved the decimal 2 places to the right)}{100 }$

**Step 3**- add as many zeros to the end of the **100** in the denominator as the number of spaces as you moved the decimal in the numerator.

**EX:** $\frac{125 }{10000 (added two zeros to 100)}$

**Step 4**- Reduce/Simplify **EX.** $\frac{125}{10000}$ ÷ $\frac{25}{25}$ = $\frac{5}{400}$ ÷ $\frac{5}{5}$ = $\frac{1}{80}$ So, **1.25%** = $\frac{1}{80}$

**Fraction to Percent**

**Step 1**- Multiply the fraction by $\frac{100}{1}$.

**Ex:** $\frac{1}{4}$ x $\frac{100}{1}$ = $\frac{100}{4}$

**Step 2**- Reduce/Simplify. **Ex:**$ \frac{100}{4}$ ÷ $\frac{4}{4}$ = $\frac{25}{1}$ = 25

**Step 3**- Add the percent sign. **Ex:** 25 = **25%**

**Decimal to Fraction**

**Step 1**-Write the **number to the left** of the decimal as the

**WHOLE NUMBER**. **EX:** **5**.25 🡪 **5**

**Step 2**-Write the **numbers to the right** of the decimal as the **NUMERATOR** of the fraction. **EX:** 5.25 🡪 5 $\frac{25}{ }$

**Step 3**- Write a **1 AND one zero for each of the digits to the right of the decimal** as the DENOMINATOR of the fraction.

**EX:** 5.25 🡪 5 $\frac{25}{100 }$

**Step 4**- Reduce/Simplify **EX:** 5 $\frac{25}{100 }$ ÷ $\frac{25}{25}$ = **5**$\frac{1}{4 }$

**Percent to Decimal D 🡨 P**

**Step 1**- Remove the percent symbol **Ex.** 23% = 23

**Step 2**- Move the decimal to the **LEFT** **two places** (the same as dividing by 100).

 Ex: 23% = 23 = .23

**Fraction to Decimal**

**Step 1**- Divide the top number by the bottom.

**Step 2**- Stop when the remainder is 0, or if needed,

continue to four places past the decimal to see if

the decimal repeats. **EX:** .4545 repeats so, $\frac{5}{11}$ **=**

\*\***IF the fraction is a mixed number**, put the whole number in front of the decimal and divide the top number of the fraction by the bottom number like above. EX. 6$\frac{4}{10}$ 🡪 6.4

**Decimal to Percent D 🡪 P**

**Step 1-** Move the decimal to the **RIGHT** **two places**

 (the same as multiplying by 100).

 **Ex:** .47 =

**Step 2-** Add the percent symbol.

 **Ex:**

**Percent to Fraction**

**Step 1-** Write the percent as the **numerator** & **100** as the **denominator.**

 **EX: 45% =** $\frac{ }{ }$

**Step 2**- Reduce/Simplify. **EX:** $\frac{45}{100}$ So, **45%** = $\frac{ }{ }$

\*\*\*If the fraction has a decimal in the numerator, follow step 1, then:

**Step 2**- move the decimal to the right to get it out of the numerator.

 **EX:** 1.25% = $\frac{ }{}$ = $\frac{ (moved the decimal 2 places to the right)}{ }$

**Step 3**- add as many zeros to the end of the **100** in the denominator as the number of spaces as you moved the decimal in the numerator.

**EX:** $\frac{ }{ (added two zeros to 100)}$

**Step 4**- Reduce/Simplify **EX.** $\frac{ }{ }$ So, **1.25%** = $\frac{ }{ }$

**Fraction to Percent**

**Step 1**- Multiply the fraction by $\frac{100}{1}$.

**Ex:** $\frac{1}{4}$ x $\frac{ }{ }$ = $\frac{ }{ }$

**Step 2**- Reduce/Simplify. **Ex:**$ \frac{ }{ }$

**Step 3**- Add the percent sign. **Ex:**

**Decimal to Fraction**

**Step 1**-Write the **number to the left** of the decimal as the

**WHOLE NUMBER**. **EX:** **5**.25 🡪

**Step 2**-Write the **numbers to the right** of the decimal as the

**NUMERATOR** of the fraction. **EX:** 5.25 🡪 5 $\frac{ }{ }$

**Step 3**- Write a **1 AND one zero for each of the digits to the right of the decimal** as the DENOMINATOR of the fraction.

**EX:** 5.25 🡪 5 $\frac{25}{ }$

**Step 4**- Reduce/Simplify **EX:** 5 $\frac{25}{100 }$

**Percent to Decimal D 🡨 P**

**Step 1**- Remove the percent symbol **Ex.** 23% =

**Step 2**- Move the decimal to the **LEFT** **two places** (the same as dividing by 100).

 Ex:

**Fraction to Decimal**

**Step 1**- Divide the top number by the bottom. Ex:$ \frac{5}{11}$

**Step 2**- Stop when the remainder is 0, or if needed,

continue to four places past the decimal to see if

the decimal repeats. **EX:**

\*\***IF the fraction is a mixed number**, put the whole number in front of the decimal and divide the top number of the fraction by the bottom number like above. EX. 6$\frac{4}{10}$ 🡪

**6.1 ON YOUR OWN PRACTICE**

**Write the Fraction as a Decimal**

1. $\frac{6}{5}$ 2) 7$ \frac{3}{8}$ 3) $\frac{3}{11}$

**Write the Decimal as a Fraction**

1. .07 2) 3.125 3) 10.25

**Write the Percent as a Fraction**





**Write the Fraction as a Percent**

1. $\frac{43}{50}$ 2) 1$\frac{1}{4}$ 3) $\frac{11}{20}$

4) 2$\frac{3}{10}$ 5) $\frac{10}{30}$ 6) $\frac{3}{15}$

**Write the Percent as a Decimal- D 🡨 P**



**Write the Decimal as a Percent – D 🡪 P**



**6.1 ON YOUR OWN PRACTICE**

**Write the Fraction as a Decimal**

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**Write the Percent as a Decimal- D 🡨 P**



**Write the Decimal as a Percent – D 🡪 P**

