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Mixed Number:

$$5\frac{1}{3}$$

A mixed number is a number greater than 1, which uses a whole number and a proper fraction.



- 1. Write a fraction with the decimal number as the numerator and 1 as the denominator
- 2. Count the decimal places to move to get whole number then multiply numerator and denominator by that power of 10
- 3. Simplify (find GCD then divide both numerator and denominator)

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or example: convert 1.62 to a fraction.	

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For example: convert 1.62 to a fraction.

• Write as fraction $\frac{1.62}{1}$ • Count Decimal Places and multiply by 10^x $\frac{1.62}{1}$

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• Write as fraction		$\frac{1.6}{1}$	62
• Count Decimal Places and multiply by 10 ^x	1 2 1.62 1	$10^2 = 100$	$\frac{1.62 \times 100}{1 \times 100} = \frac{162}{100}$

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For example: convert 1.62 to a	fraction.		
• Write as fraction		$\frac{1.69}{1}$	2
Count Decimal Places and multiply by 10 ^x	1.62 1	$10^2 = 100$	$\frac{1.62 \times 100}{1 \times 100} = \frac{162}{100}$
• Find GCD	Factors of 162: 1, 2, 3, 6, 9, 18, 27, 54, 81, 162 Factors of 100: 1, 2, 4, 5, 10, 20, 25, 50, 100		

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Divide numerator and denominator		$\frac{162 \div 2}{100 \div 2}$	$= \frac{81}{50}$	

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Find GCD		1,2,3, 6, 9, 18, 27, 1,2,4, 5, 10, 20, 25,		GCD is 2
Divide numerator and denominator		$\frac{162 \div 2}{100 \div 2}$		
So 1.62 as a fraction is $81/50$				

The best way to convert from fraction to decimal is to use a calculator and divide numerator by denominator.



Improper Fraction to Mixed Number:

- 1. Divide numerator by denominator noting the whole number and the remainder
- 2. Write down the whole number then the remainder over the original denominator

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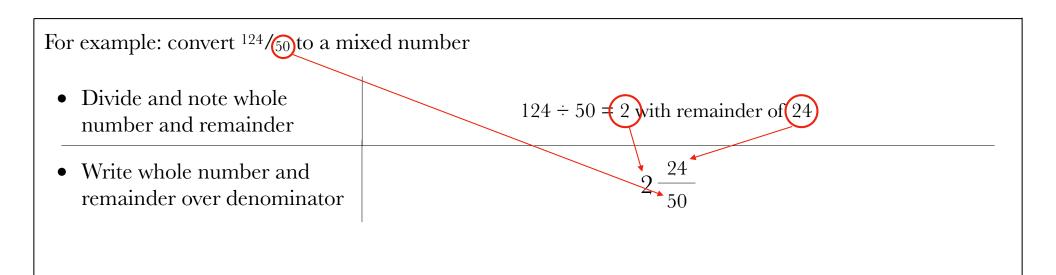
For example: convert 124/50 to a mixed number

• Divide and note whole number and remainder

$$124 \div 50 = 2$$
 with remainder of 24

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For example: convert 124/50 to a mixe	ed number
Divide and note whole number and remainder	$124 \div 50 = 2$ with remainder of 24
Write whole number and remainder over denominator	$2\frac{24}{50}$
So $^{124}/_{50}$ as a mixed number is 2 24	·/ ₅₀



Mixed Number to Improper Fraction:

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- 2. Add the result to the numerator

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For example: convert 3 to an improper fraction.

• Multiply whole number by denominator

$$3 \times 5 = 15$$

Mixed Number to Improper Fraction:

- 1. Multiply whole number by denominator
- 2. Add the result to the numerator

For example: convert 3 (4) an improper fraction.

• Multiply whole number by denominator

 $3 \times 5 = 15$

• Add that to the numerator

 $\frac{15+4}{5} = \frac{19}{5}$

Mixed Number to Improper Fraction:

- 1. Multiply whole number by denominator
- 2. Add the result to the numerator

For example: convert 3 $^4/_5$ to an improper fraction.

$$3 \times 5 = 15$$

• Add that to the numerator

$$\frac{15+4}{5} = \frac{19}{5}$$

So 3 $\frac{4}{5}$ as an improper fraction is $\frac{19}{5}$