

## Lesson 5-2 Fractions and Decimals

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### Terminating Decimal

- Def: When division ends with a remainder of zero

$$\begin{array}{r} 57 \\ 8 \overline{) 456} \\ \underline{40} \phantom{0} \\ 56 \\ \underline{56} \\ 0 \end{array}$$

- Turns into 0.0625 but HOW???

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### Converting Fractions to decimals

- Steps:
  - 1.) Write the fraction
  - 2.) Rewrite the fraction as division with the **NUMERATOR** as the **dividend** and the **DENOMINATOR** as the **divisor**

$$\begin{array}{r} 57 \\ 8 \overline{) 456} \\ \underline{40} \phantom{0} \\ 56 \\ \underline{56} \\ 0 \end{array}$$

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**Convert fraction to decimal (1 / 3)**

$$\frac{1}{4}$$

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**Convert fraction to decimal (2/3)**

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

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**Convert the fraction to a decimal (3/3)**

$$3 \frac{3}{10}$$

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### Repeating decimals

- Def: are decimals that have a block of numbers that repeats without end.

- EX:  $\frac{1}{3} = 0.\overline{33}$

- A bar is placed on top to show which digit(s) keeps repeating

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### Tell if the fraction is a terminating or repeating decimal

- $7/9$

- $8/11$

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### Converting a decimal to fraction

- Simply read the decimal correctly and write the fraction
- Reduce if possible

- $0.67 \rightarrow$

- $1.21 \rightarrow$

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**Class / Homework**

- PB 5-2 (skip 23, 25, 28, 31, 33)

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