

January 19, 2016

Fraction Conversions

- Convert Fraction to Decimal

$$\frac{11}{23} \leftarrow \text{division bar}$$

$$\begin{array}{r}
 23 \overline{) 11.00000} \\
 \underline{-092} \\
 180 \\
 \underline{-161} \\
 190 \\
 \underline{-184} \\
 60 \\
 \underline{-46} \\
 140 \\
 \underline{-138} \\
 20
 \end{array}$$

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Convert a decimal to a fraction

$$0.\overline{88} = \frac{88}{100} = \frac{44}{50} = \frac{22}{25}$$

$$0.\overline{8} = \frac{8}{10} = \frac{4}{5}$$

0.80 = 80%

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Convert to a fraction

$$0.\overline{16} \approx 0.1616161616\dots$$

steps

- Let $x = 0.161616\dots$
- $100x = 100(0.161616\dots)$
 $100x = 16.1616\dots$
- $-x = 0.1616\dots$

$$\frac{99x}{99} = \frac{16}{99}$$

$$x = \frac{16}{99}$$

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1.1. 29

	N	Z	Q	R
$-\frac{4}{3}$			✓	✓
$\frac{12}{1}$	✓	✓	✓	✓
0		✓	✓	✓
$\sqrt{11}$				✓
$1.\overline{3}$			✓	✓
$\frac{6}{2}$	✓	✓	✓	✓

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