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p. 379-385

terminating decimal = .5
exact (as we write it) .50000
i50000000

repeating decimal = "force a rational number into a decimal."
 $\frac{1}{3}$ third decimals are in tenths

repeating pattern = one digit
multi-digit

$\overline{.3} = .333333$
 $\overline{.45454545} = .\overline{45}$
 $\overline{.123123123} = \overline{.123}$

bar notation

all fractions can be notated as decimals -
* the fractions that go evenly are terminating decimal.
* fractions that don't work evenly are repeating decimals.

p. 383-384

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p. 383-384

p383

$$\textcircled{1} \frac{7}{15} = .4\bar{6}$$

$$\begin{array}{r} .466 \\ \hline 15 \overline{) 7.0000} \\ \underline{60} \\ 100 \\ \underline{90} \\ 100 \\ \underline{90} \\ 100 \end{array}$$

$$\frac{7}{14} = .5 \quad \begin{array}{r} .5 \\ \hline 14 \overline{) 7.0} \\ \underline{70} \\ \hline \end{array}$$

$$\textcircled{2} \frac{8}{18} = .\bar{4}$$

$$\begin{array}{r} .4 \\ \hline 18 \overline{) 8.00} \\ \underline{72} \\ 80 \end{array}$$