5.7 Changing Decimals To fractions

$0.1 \quad \frac{1}{10}$

$0.19 \quad \frac{19}{100}$

$0.4 \quad \frac{4}{10} = \frac{2}{5}$

$0.35 \quad \frac{35}{100} \div \frac{5}{5} = \frac{7}{20}$

$1.07 \quad 1\frac{7}{100}$

$\frac{107}{100} = 1\frac{7}{100}$

$6.34 = 6\frac{34}{100} = 6\frac{17}{50}$

$0.6 = \frac{6}{10} = \frac{3}{5}$

$\frac{3}{5} \times \frac{5}{5} = \frac{15}{25}$

$\frac{3}{5} \times \frac{7}{7} = \frac{21}{35}$

One with a denominator of 25, one with a denominator of 35

5.8 Changing Fractions to Decimals

$\frac{7}{1}$ $f \rightarrow D$ is division

$\frac{7}{1} = 7$

$\frac{1}{2}$

$2\overline{)1.0}$ → 0.5, 10, 0

$\frac{3}{8}$

$8\overline{)3.000}$ → 0.375, 24, 60, 56, 40, 40, 0

$\frac{5}{6}$

$6\overline{)5.00}$ = 0.83333

4.8 ↓

2 0

1 8

2 0

1 8

2 0

1 8

$0.8\overline{33}$

Repeating Bar line

All multiples of 3 are repeating

$0.8\overline{3}$

$0.\underline{45}\underline{45}\underline{45}\underline{45}\ldots\ldots$

$0.\overline{45}$

$0.5\underline{1427}\underline{1427}\underline{1427}$

$0.5\overline{1427}$

$6\overline{)\frac{3}{4}}$ ↙

$4\overline{)3.00}$ = 0.75

28

20

20

0

6.75

Terminating Fraction
when in decimal form it ends

Nonterminating
1 Repeating
2 Nonrepeating → $\pi \approx (3.14)$

P268 4-44
multiples of 4

P273-274 4-44
multiples of 4

December 19, 2016