

1/3 5.8 Changing Fractions to Decimals

p. 253 $\frac{n}{d} \rightarrow \frac{31}{50}$ ← thirty one out of fifty } thirty one divided by fifty

$$\begin{array}{r} .62 \\ 50 \overline{) 31.00} \\ \underline{-300} \\ 100 \\ \underline{-100} \\ 0 \end{array}$$

To write a fraction as a decimal, divide the numerator by the denominator!

p. 253 #s 1-4: 2 min.

① 0.5

② 0.8

③ 0.25

④ 0.375

$$\frac{3}{8} \quad 8 \overline{) 3.000}$$
$$\begin{array}{r} .375 \\ 8 \overline{) 3.000} \\ \underline{24} \\ 60 \\ \underline{-56} \\ 40 \end{array}$$

To Write a Mixed # as a decimal:

① Turn mixed # into an improper fraction

② Divide the fraction

$$2\frac{1}{8} = \frac{17}{8}$$

→ 2.125

Terminating
Decimal

- ends up with
no remainder

$$\begin{array}{r} 2.125 \\ 8 \overline{) 17.000} \\ \underline{-16} \\ 10 \\ \underline{-8} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

Repeating Decimal

$$1\frac{1}{6} = \frac{7}{6}$$

$$\begin{array}{r} 1.1\bar{6} \\ 6 \overline{) 7.000} \\ \underline{-4} \\ 10 \\ \underline{-6} \\ 40 \\ \underline{-36} \\ 40 \end{array}$$

$$1.1\bar{6}$$

$$1\frac{5}{33} = \frac{38}{33}$$

$$\begin{array}{r} 1.1\bar{5} \\ 33 \overline{) 38.000} \\ \underline{-33} \\ 50 \\ \underline{-33} \\ 170 \\ \underline{-165} \\ 50 \end{array}$$

$$1.1\bar{5}$$

p. 2 54 #s 5-8: 3 min.

⑤ 5.4 $3\frac{5}{8} = \frac{29}{8}$

⑥ 3.625

⑦ $0.\overline{6}$

⑧ $3.\overline{18}$

$$\begin{array}{r} 3.625 \\ \hline 8 \overline{) 29.00} \\ \underline{-24} \\ 50 \\ \underline{-48} \\ 20 \\ \underline{-16} \\ 40 \end{array}$$

In Class:

p. 255 #s 1-12 &
18-21

HW: WS p. 73

#s 1-24 ALL