

$\frac{22}{22}$

10. [8 pts] Divide by hand, then explain thoroughly why the decimal point in the dividend is moved as it is: $0.07 \div 0.35$.

- (-3) wrong answer.
- (-3) no FLF
- (-2) no how
- (-2) FLF applies.

$$35 \overline{) 0.070} \begin{matrix} .2 \\ .0 \end{matrix}$$

Move the dividend's point "to match" because of the FLF;

$$\frac{0.07}{0.35} \times \frac{100}{100} = \frac{7}{35} > \begin{matrix} 2 \text{ posit} \\ \text{each} \end{matrix}$$

11. [14 pts - 3 or 5 each] Convert as indicated; if not possible, say so.

(5) (a) $1.45\bar{7}$ to a fraction

$$\begin{aligned} \xrightarrow{\times 100} 145.\bar{7} &= 145\frac{7}{9} \\ &= \frac{1312}{9} \xrightarrow{\div 100} \end{aligned}$$

$$\frac{1312}{900}$$

(3) (b) $1.45\bar{7}$ to a percent, rounded to the nearest tenth of a percent

(-1) 145.790

$$145.8\%$$

(3) (c) 6.83% to a fraction

- (-2) .0683
- (-2) $\frac{683}{100}$
- (-2) bad 0's.

$$.0683 =$$

$$\frac{683}{10,000}$$

(3) (d) $\frac{7}{18}$ to a decimal; do not round

(-3) round

$$.3\bar{8}$$