

Exercise - 10CF)

Division of Decimal by whole Number

Divide 0.406 by 26

$$2 \quad 0.406 \div 26 = \frac{406}{1000} \times \frac{1}{26} = 0.014$$

or

$$\begin{array}{r}
 0.099 \\
 \hline
 29 \overline{) 0.406} \\
 \underline{- 0} \\
 0.4 \\
 \underline{- 0} \\
 40 \\
 \underline{- 29} \\
 110 \\
 \underline{- 110} \\
 000
 \end{array}$$

2. Example: Divide 82.25 by 5

$$82.25 \div 5 = \frac{8225}{100} \times \frac{1}{5} = \frac{1645}{100} = 16.45$$

$$2. \quad 24.9 \text{ by } 300 \leq \frac{249}{90} = 300 = \frac{249}{90} \times \frac{1}{300} = 0.083$$

$$3. \quad 1472 \text{ by } 230$$

$$\begin{array}{r} .6.4 \\ 230 \overline{) 1472} \\ \underline{-1380} \\ 00920 \\ \underline{-920} \\ 0 \end{array}$$

$$4. \quad 650.3 \text{ by } 700$$

$$\begin{array}{r} .0929 \\ 7000 \overline{) 650.30} \\ \underline{-63000} \\ 02030 \\ \underline{-1400} \\ 6300 \\ \underline{-6300} \\ 0000 \end{array} = 0.0929$$

5. 17.4 by 2000

$$\begin{array}{r} 0.0087 \\ \hline 2000 \overline{) 17400} \\ \underline{-16000} \\ 014000 \\ \underline{-14000} \\ 00000 \end{array}$$

$$= 0.0087$$

6. 108.8 by 8000

$$\begin{array}{r} 0.0136 \\ \hline 8000 \overline{) 10880} \\ \underline{-8000} \\ 28800 \\ \underline{-24000} \\ 048000 \\ \underline{-48000} \\ 00000 \end{array}$$

$$= 0.0136$$

8. ~~316.96 by 0.028~~

$$\begin{array}{r}
 \text{000} \\
 \hline
 \text{316.96} \times \text{0.028} \\
 \hline
 \text{1} \\
 \hline
 \text{0.028} \overline{) 316.96} \\
 \underline{-28} \\
 \hline
 \end{array}$$

$\frac{28}{1000} \times 3$

9. 316.96 by 0.028

$316.96 \times 1000 = 316960$

$0.028 \times 1000 = 28$

$$\begin{array}{r}
 \text{1 1 3 2 0} \\
 \hline
 28 \overline{) 316960} \\
 \underline{-28} \downarrow \\
 \text{0 8 9} \\
 \underline{-28} \downarrow \\
 \text{0 5 6} \\
 \underline{-56} \downarrow \\
 \text{0 0} \\
 \underline{-0} \\
 \text{0}
 \end{array}$$

7. 0.8432 by 0

$$\begin{aligned}
 &= \frac{0.8432 \times 10}{0.8 \times 10} \\
 &= \frac{8.432}{8}
 \end{aligned}$$

$$\begin{array}{r}
 8 \overline{) 8.432} \\
 \underline{-8} \\
 \text{0 4 0} \\
 \underline{-40} \\
 \text{0 3 2} \\
 \underline{-32} \\
 \text{0}
 \end{array}$$

= 11320