

Division Strategies

Box Method

$$\times \quad 200 \quad + \quad 70 \quad + \quad 5$$

3

| | | |
|---------------------------|--------------------------|-----------------------|
| 825 <u>-600</u> 225 | 225 <u>-210</u> 15 | 15 <u>-15</u> 0 |
|---------------------------|--------------------------|-----------------------|

Magic "7" Method:

$$\begin{array}{r}
 245 \text{ R}3 \\
 4 \overline{) 983} \\
 \underline{-400} \quad \times 100 \\
 583 \\
 \underline{-400} \quad \times 100 \\
 183 \\
 \underline{-100} \quad \times 25 \\
 83 \\
 \underline{-80} \quad \times 20 \\
 3
 \end{array}$$

Grid Method:

$$825 \div 3 = \underline{\hspace{2cm}}$$

| | | |
|----------|------|------|
| Hundreds | Tens | Ones |
|----------|------|------|

2 7 5

3

| | | |
|---------------------|-----------------------|-----------------------|
| 8 <u>-6</u> 2 | 22 <u>-21</u> 1 | 15 <u>-15</u> 0 |
|---------------------|-----------------------|-----------------------|

$$825 \div 3 = 275$$

U.S. Algorithm:

$$7552 \div 32$$

$$\begin{array}{r}
 236 \\
 32 \overline{) 7552} \\
 \underline{-64} \quad \downarrow \\
 115 \\
 \underline{-96} \quad \downarrow \\
 192 \\
 \underline{-192} \\
 0
 \end{array}$$