

## Two Methods for Solving Division Problems

Digit-by-Digit Method

$$378 \div 4$$

$$\begin{array}{r}
 94 \\
 4 \overline{) 378} \\
 \underline{-36} \downarrow \\
 18 \\
 94 \text{ R } 2 \quad \underline{-16} \\
 2
 \end{array}$$

Rectangle Sections Method

$$378 \div 4$$

	<b>90</b>	<b>4</b>	
4	$  \begin{array}{r}  378 \\  \underline{-360} \\  18  \end{array}  $	$  \begin{array}{r}  18 \\  \underline{-16} \\  2  \end{array}  $	$  \begin{array}{r}  90 \\  + 4 \\  \hline  94 \text{ R } 2  \end{array}  $
	$90 \times 4 = 360$		
	$4 \times 4 = 16$		

**Directions:** Solve the division expression using the digit-by-digit method in box #1. Then, solve the same division expression in box #2 using the rectangle sections method.

$$572 \div 7$$

1. Digit-by-Digit Method

$$\begin{array}{r}
 81 \\
 7 \overline{) 572} \\
 \underline{-56} \downarrow \\
 12 \\
 81 \text{ R } 5 \quad \underline{-7} \\
 5
 \end{array}$$

2. Rectangle Sections Method

	<b>80</b>	<b>+</b>	<b>1</b>	<b>=</b>	<b>81 R 5</b>
7	$  \begin{array}{r}  572 \\  \underline{-560} \\  12  \end{array}  $	$  \begin{array}{r}  12 \\  \underline{-7} \\  5  \end{array}  $			
	$80 \times 7 = 560$		$1 \times 7 = 7$		