

Division Strategy: Partition the Dividend

Materials: Division Equations Board

1. Work with a partner. Choose a line of four problems from the board (vertically, horizontally or diagonally) that you will both solve.
2. Solve each problem by breaking the dividend into parts that are easy to divide. Solve the easier problems and then add the partial quotients.

Example: $72 \div 5$

$$\begin{array}{r}
 72 \\
 \swarrow \searrow \\
 50 + 22 \ (\div 5) \\
 \downarrow \quad \downarrow \\
 10 + 4R2 = 14 R2
 \end{array}$$

or

$$\begin{array}{r}
 10 + 4 R2 = 14 R2 \\
 \hline
 5 \overline{)50 + 22}
 \end{array}$$

$256 \div 7$

$$\begin{array}{r}
 256 \\
 \swarrow \downarrow \\
 210 + 46 \ (\div 7) \\
 \downarrow \quad \downarrow \\
 30 + 6R4 = 36 R4
 \end{array}$$

or

$$\begin{array}{r}
 30 + 6 R4 = 36 R4 \\
 \hline
 7 \overline{)210 + 46}
 \end{array}$$

3. Check your work with your partner. Then repeat with another line of four problems.

$101 \div 9$	$91 \div 7$	$104 \div 8$	$125 \div 5$
$64 \div 4$	$58 \div 4$	$48 \div 3$	$79 \div 6$
$73 \div 6$	$97 \div 8$	$67 \div 5$	$41 \div 3$
$49 \div 3$	$120 \div 9$	$72 \div 5$	$84 \div 6$