

Division Strategy: Partition the Dividend

Materials: Division Equations Board

1. Choose a line of four problems from the board (vertically, horizontally, or diagonally).
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: $289 \div 24$

$$\begin{array}{r}
 289 \\
 \swarrow \searrow \\
 240 + 49 \quad (\div 24) \\
 \downarrow \quad \downarrow \\
 10 + 2r1 = 12 R1
 \end{array}$$

or

$$\begin{array}{r}
 10 + 2 R1 = 12 R1 \\
 24 \overline{) 240 + 49}
 \end{array}$$

3. Use the same strategy for problems with a 4-digit dividend.

Example: $4183 \div 38$

$$\begin{array}{r}
 4183 \\
 \swarrow \downarrow \\
 3800 + 383 \quad (\div 38) \\
 \downarrow \quad \downarrow \\
 100 + 10r3 = 110 R3
 \end{array}$$

or

$$\begin{array}{r}
 100 + 10 R3 = 110 R3 \\
 38 \overline{) 3800 + 383}
 \end{array}$$

$278 \div 25 =$

$421 \div 38 =$

$498 \div 45 =$

$697 \div 63 =$

$282 \div 14 =$

$303 \div 15 =$

$325 \div 16 =$

$348 \div 17 =$

$651 \div 32 =$

$826 \div 41 =$

$501 \div 49 =$

$465 \div 23 =$

$2759 \div 27 =$

$6801 \div 34 =$

$8282 \div 41 =$

$7071 \div 35 =$