



# Solving Division Puzzles

NCTM Standards 1, 2, 6, 7, 9, 10

1 Complete the table.

	0	10	20	30	40	50	60	70	80	90
$7 \times$ 										

Use the table to help you make division puzzles to solve the division problems below.

**Remember:**

1. The first part must be a multiple of 10.
2. Make the second part as small as possible.
3. Use only whole numbers.

2  $147 \div 7 = \square$

$$\begin{array}{r} \square + \square \\ 7 \overline{) 140 + \square} \end{array}$$

3  $224 \div 7 = \square$

$$\begin{array}{r} \square + \square \\ 7 \overline{) \square + \square} \end{array}$$

4  $301 \div 7 = \square$

$$\begin{array}{r} \square + \square \\ 7 \overline{) \square + \square} \end{array}$$

5  $378 \div 7 = \square$

$$\begin{array}{r} \square + \square \\ 7 \overline{) \square + \square} \end{array}$$

6  $455 \div 7 = \square$

$$\begin{array}{r} \square + \square \\ 7 \overline{) \square + \square} \end{array}$$

7  $532 \div 7 = \square$

$$\begin{array}{r} \square + \square \\ 7 \overline{) \square + \square} \end{array}$$

**Make a division puzzle that will help you solve each division problem.**

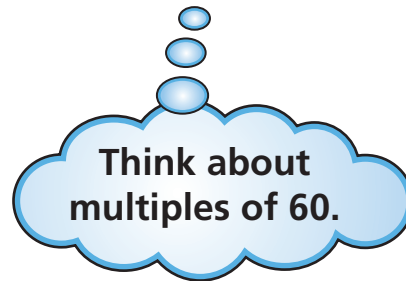
**8**  $336 \div 8 = \square$

$$\begin{array}{r} \square + \square \\ 8 \overline{) \square + \square} \end{array}$$



**9**  $576 \div 6 = \square$

$$\begin{array}{r} \square + \square \\ 6 \overline{) \square + \square} \end{array}$$



**10**  $328 \div 4 = \square$

$$\begin{array}{r} \square + \square \\ 4 \overline{) \square + \square} \end{array}$$

**11**  $378 \div 9 = \square$

$$\begin{array}{r} \square + \square \\ 9 \overline{) \square + \square} \end{array}$$

**12 Challenge** Shana packs a dozen roses in each box. If she has 910 roses, how many full boxes can she pack? How many roses will be left over?

