

Dividing Using Multiplication Puzzles

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Complete the puzzles. Rewrite each division sentence as a multiplication sentence. Choose numbers for the green boxes from this list:
0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40, 50, 60, 70, 80, 90

<p>1</p> $\begin{array}{r} \square \\ 30 \\ 7 \overline{) 238} \end{array}$	<p>2</p> $\begin{array}{r} \square \\ \square \\ 9 \overline{) 432} \end{array}$	<p>3</p> $\begin{array}{r} \square \\ \square \\ 8 \overline{) 536} \end{array}$
$7 \times 30 = 210$	$9 \times \square = \square$	$8 \times \square = \square$
$7 \times \square = \square$	$9 \times \square = \square$	$8 \times \square = \square$
$238 \div 7 = \square$	$432 \div 9 = \square$	$536 \div 8 = \square$
<p>4</p> $\begin{array}{r} \square \\ \square \\ 6 \overline{) 582} \end{array}$	<p>5</p> $\begin{array}{r} \square \\ \square \\ 4 \overline{) 312} \end{array}$	<p>6</p> $\begin{array}{r} \square \\ \square \\ 9 \overline{) 153} \end{array}$
$6 \times \square = \square$	$4 \times \square = \square$	$9 \times \square = \square$
$6 \times \square = \square$	$4 \times \square = \square$	$9 \times \square = \square$
$582 \div 6 = \square$	$312 \div 4 = \square$	$153 \div 9 = \square$

Complete the puzzles. Rewrite each division sentence as a multiplication sentence. Choose numbers for the green boxes from this list:
 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40, 50, 60, 70, 80, 90

7

$$\begin{array}{r} \square \\ \square \\ 3 \overline{) 291} \end{array}$$

$3 \times \square = \square$

$3 \times \square = \square$

$291 \div 3 = \square$

8

$$\begin{array}{r} \square \\ \square \\ 8 \overline{) 272} \end{array}$$

$8 \times \square = \square$

$8 \times \square = \square$

$272 \div 8 = \square$

9

$$\begin{array}{r} \square \\ \square \\ 5 \overline{) 245} \end{array}$$

$5 \times \square = \square$

$5 \times \square = \square$

$245 \div 5 = \square$



10 Challenge Write a word problem to match $138 \div 6$ and then solve it.
