

Name \_\_\_\_\_ Date \_\_\_\_\_

# Division Rules

CA Standards  
NS 2.6, MR 3.0

Use related multiplication facts to discover special rules for dividing with 0 and 1.

<p><b>Example</b></p> <p>When any number except 0 is divided by itself, the quotient is 1.</p> <p><math>4 \div 4 = \blacksquare</math></p> <p>Think: <math>4 \times \blacksquare = 4</math> <math>4 \times 1 = 4</math></p> <p><b>Solution:</b> So <math>4 \div 4 = 1</math>.</p>	<p><b>Example</b></p> <p>When any number is divided by 1, the quotient is the dividend.</p> <p><math>4 \div 1 = \blacksquare</math></p> <p>Think: <math>1 \times \blacksquare = 4</math> <math>1 \times 4 = 4</math></p> <p><b>Solution:</b> So <math>4 \div 1 = 4</math>.</p>
<p><b>Example</b></p> <p>When 0 is divided by any number except 0, the quotient is 0.</p> <p><math>0 \div 4 = \blacksquare</math></p> <p>Think: <math>4 \times \blacksquare = 0</math> <math>4 \times 0 = 0</math></p> <p><b>Solution:</b> So <math>0 \div 4 = 0</math>.</p>	<p><b>Example</b></p> <p>You cannot divide any number by 0.</p> <p><math>4 \div 0 = \blacksquare</math></p> <p>Think: <math>0 \times \blacksquare = 4</math></p> <p>No number can be placed in the box to make a true sentence.</p> <p><b>Solution:</b> So, 4 cannot be divided by 0.</p>

Divide.

1.  $7 \div 1 = \underline{\quad}$

2.  $8 \div 8 = \underline{\quad}$

3.  $0 \div 5 = \underline{\quad}$

4.  $0 \div 2 = \underline{\quad}$

5.  $2 \div 1 = \underline{\quad}$

6.  $7 \div 7 = \underline{\quad}$

7.  $0 \div 7 = \underline{\quad}$

8.  $9 \div 1 = \underline{\quad}$

9.  $2 \div 2 = \underline{\quad}$



**Writing Math** Adelaide wants to put 8 pennies into groups of 2. How many groups of 2 will she have? Explain how you know.