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ACTIVITY 4.11

Name: *Quotient Connect*

Type: *Game*

About the Game: This game is an engaging way to practice division using Partial Quotients. It is played similarly to the classic board game *Boggle* as students find quotients through connected digits.

Materials: *Quotient Connect* game board; digit cards (0–9), playing cards (queens = 0, aces = 1; remove 10s, kings, and jacks), or division cards; paper for recording work

- Directions:**
1. Players make a game board by randomly placing digits in each grid, as shown in the example.
 2. Players use digit cards to make a division problem. As an alternative, you can provide cards with division problems on them.
 3. Both players solve the division problem.
 4. Players look for the quotient on the game board they made by finding adjacent digits (similar to the classic board game *Boggle*).
 5. Players get 1 point for each example they find. The first player to reach a set goal (e.g., 10 points) or the most points after five problems wins.

For example, two players made the problem $-273 \div -13$. They both found the quotient to be 21. Player 1 found 21 in two places, earning 2 points, as shown. Player 2 found 21 in three places, earning 3 points. Note that when using integers, negative quotients can still be used. The 21s found by these students could be thought of as “–21s.”

$$-273 \div -13$$

Quotient Connect Game Boards

Problem:	Problem:																																																		
<p>Quotient Connect</p> <p>Fill in each square with numbers 1 through 9. You may repeat the numbers and place them in any order.</p> <table border="1"> <tr><td>7</td><td>5</td><td>4</td><td>9</td><td>8</td></tr> <tr><td>4</td><td>2</td><td>3</td><td>8</td><td>3</td></tr> <tr><td>1</td><td>2</td><td>9</td><td>6</td><td>4</td></tr> <tr><td>5</td><td>5</td><td>9</td><td>3</td><td>2</td></tr> <tr><td>6</td><td>1</td><td>1</td><td>3</td><td>7</td></tr> </table>	7	5	4	9	8	4	2	3	8	3	1	2	9	6	4	5	5	9	3	2	6	1	1	3	7	<p>Quotient Connect</p> <p>Fill in each square with numbers 1 through 9. You may repeat the numbers and place them in any order.</p> <table border="1"> <tr><td>1</td><td>3</td><td>6</td><td>4</td><td>8</td></tr> <tr><td>9</td><td>1</td><td>2</td><td>3</td><td>8</td></tr> <tr><td>5</td><td>6</td><td>4</td><td>4</td><td>1</td></tr> <tr><td>3</td><td>8</td><td>7</td><td>2</td><td>1</td></tr> <tr><td>3</td><td>7</td><td>9</td><td>4</td><td>8</td></tr> </table>	1	3	6	4	8	9	1	2	3	8	5	6	4	4	1	3	8	7	2	1	3	7	9	4	8
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Quotient Connect Game Board Template

Problem:

Quotient Connect

Fill in each square with numbers 1 through 9. You may repeat the numbers and place them in any order.
