

Diamond Problems Monomials

Name: _____

Date: _____

Section: _____

Main Ideas	Notes
<p>Diamond Problems</p> <div style="text-align: center; border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5%; left: 50%; transform: translate(-50%, -50%);">Product</div> <div style="position: absolute; bottom: 5%; left: 50%; transform: translate(-50%, -50%);">Sum</div> <div style="position: absolute; left: 15%; top: 45%;">#</div> <div style="position: absolute; right: 15%; top: 45%;">#</div> </div>	
<p>I Do:</p> <div style="text-align: center; border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; left: 15%; top: 45%;">2x</div> <div style="position: absolute; right: 15%; top: 45%;">2x</div> </div>	<p>We Do:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center; border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; left: 15%; top: 45%;">3x</div> <div style="position: absolute; right: 15%; top: 45%;">-5</div> </div> <div style="text-align: center; border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; left: 15%; top: 45%;">-4x</div> <div style="position: absolute; right: 15%; top: 45%;">-9x</div> </div> <div style="text-align: center; border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; top: 5%; left: 50%; transform: translate(-50%, -50%);">12x²</div> <div style="position: absolute; left: 15%; top: 45%;">-6x</div> </div> </div>
<p>You Do:</p> <div style="display: grid; grid-template-columns: repeat(4, 1fr); gap: 20px;"> <!-- Problem 1 --> <div style="text-align: center;"> <p>1)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 15%; top: 45%;">3x</div> <div style="position: absolute; right: 15%; top: 45%;">-4x</div> </div> </div> <!-- Problem 2 --> <div style="text-align: center;"> <p>2)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 15%; top: 45%;">2x</div> <div style="position: absolute; right: 15%; top: 45%;">-6</div> </div> </div> <!-- Problem 3 --> <div style="text-align: center;"> <p>3)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 50%; top: 45%; transform: translate(-50%, -50%);">x</div> <div style="position: absolute; right: 50%; top: 45%; transform: translate(-50%, -50%);">x</div> </div> </div> <!-- Problem 4 --> <div style="text-align: center;"> <p>4)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; top: 5%; left: 50%; transform: translate(-50%, -50%);">x²</div> <div style="position: absolute; right: 15%; top: 45%;">3x</div> </div> </div> <!-- Problem 5 --> <div style="text-align: center;"> <p>5)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 15%; top: 45%;">-15x</div> <div style="position: absolute; right: 15%; top: 45%;">5x</div> </div> </div> <!-- Problem 6 --> <div style="text-align: center;"> <p>6)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; top: 5%; left: 50%; transform: translate(-50%, -50%);">20x⁶</div> <div style="position: absolute; left: 15%; top: 45%;">4x³</div> </div> </div> <!-- Problem 7 --> <div style="text-align: center;"> <p>7)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 15%; top: 45%;">2x</div> <div style="position: absolute; right: 15%; top: 45%;">-6x</div> </div> </div> <!-- Problem 8 --> <div style="text-align: center;"> <p>8)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; top: 5%; left: 50%; transform: translate(-50%, -50%);">-3x²</div> <div style="position: absolute; bottom: 5%; left: 50%; transform: translate(-50%, -50%);">-8x²</div> </div> </div> <!-- Problem 9 --> <div style="text-align: center;"> <p>9)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 15%; top: 45%;">-x</div> <div style="position: absolute; right: 15%; top: 45%;">4x</div> </div> </div> <!-- Problem 10 --> <div style="text-align: center;"> <p>10)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; top: 5%; left: 50%; transform: translate(-50%, -50%);">-18x²</div> <div style="position: absolute; left: 15%; top: 45%;">-6</div> </div> </div> <!-- Problem 11 --> <div style="text-align: center;"> <p>11)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; right: 15%; top: 45%;">-x</div> <div style="position: absolute; bottom: 5%; left: 50%; transform: translate(-50%, -50%);">2x</div> </div> </div> <!-- Problem 12 --> <div style="text-align: center;"> <p>12)</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 0 auto;"> <div style="position: absolute; left: 50%; top: 45%; transform: translate(-50%, -50%);">x</div> <div style="position: absolute; right: 15%; top: 45%;">8</div> </div> </div> </div>	