



Sequence Twisters

Name _____

Name _____

Directions: You and your partner will work together to solve these sequence related problems. You solve the problems on the left and your partner will solve the problems on the right. When you are done, your answers will match - but the answers are NOT in the same order in both columns.

<p>1. Find the 11th term of 5, 8, 11, ...</p>	<p>1. Find the sum of the first 8 positive odd integers.</p>
<p>2. Evaluate:</p> $\sum_{k=1}^5 (2^k - 1)$	<p>2. Find the sum of 100 terms of the geometric sequence 1, -1, 1, -1, 1, -1, ...</p>
<p>3. Which term of this arithmetic sequence is 177? 2, 9, 16, ...</p>	<p>3. Which term of this arithmetic sequence is 25? -2, 1, 4, ...</p>
<p>4. Find the sum of the first 10 positive integers.</p>	<p>4. Find the 9th term of the sequence 3, 7, 11, ...</p>

<p>5. Find the 7th term of an arithmetic sequence whose first term is -8 and whose common difference is 3.</p>	<p>5. Evaluate:</p> $\sum_{k=1}^4 (3k - 1)$
<p>6. Evaluate:</p> $\sum_{k=2}^{10} ((2k + 1)^0 - 1)$	<p>6. Which term of this sequence is 275? 5, 10, 15, ...</p>
<p>7. Find the 7th term of the sequence 1, 2, 4, ...</p>	<p>7. Evaluate:</p> $\sum_{n=1}^4 2^n$
<p>8. For the sequence 2, 4, 8, 16, ... the value of S_4 is _____</p>	<p>8. Find the 10th term of the sequence -6, 1, 8, ...</p>