

Geometric Sequence Worksheet

1. Write the next two terms in the geometric sequence: 3, 6, 12, 24, ...
2. Find the common ratio in the geometric sequence: 81, 27, 9, 3, ...
3. What is the 6th term of the geometric sequence where the first term is 2 and the common ratio is 5?
4. If the first term of a geometric sequence is 10 and the second term is 5, what is the 4th term?
5. The 1st term of a geometric sequence is 7 and the 3rd term is 63. Find the common ratio.
6. In a geometric sequence, the 2nd term is 18 and the 4th term is 162. What is the first term?
7. The sum of the first three terms of a geometric sequence is 21. If the first term is 3 and the common ratio is r , find the value of r .

Sequencing Events

8. Arrange the following numbers in the order they appear in the geometric sequence: 2, 8, 32, 128, 512
9. The following sequence is missing one term: 5, __, 45, 135, 405. Fill in the missing term and write the full sequence in order.
10. Place these terms in the correct order to form a geometric sequence: 1, 8, 4, 2, 16

Answer Key

1. 48, 96
2. $\frac{1}{3}$
3. 625
4. 1.25
5. 3
6. $\frac{1}{6}$
7. $r = 2$

Sequencing Events

8. 2, 8, 32, 128, 512
9. 15; The full sequence is 5, 15, 45, 135, 405
10. 1, 2, 4, 8, 16