

Name: _____

Date: _____

BLM 1.CR.1

Chapter 1 Review

For each question, use the most appropriate tools, computational methods, and problem solving strategies. Provide complete justification for each solution.

1. Describe the pattern for each sequence. List the next three terms in each pattern.
 - a) 0.25, 0.5, 0.75, 1, 1.25
 - b) 1, 3, 9, 27, 81
 - c) 6, 2, -2, -6, -10
 - d) 6, 8, 12, 18, 26
2.
 - a) Write all the fractions with denominator 15 and numerators from 1 to 10. Convert each fraction to a decimal.
 - b) Describe the pattern. Use the pattern to predict the decimal equivalents for each fraction: $\frac{11}{15}, \frac{12}{15}, \frac{13}{15}$.
3. What power of (-9) is 43 046 721?
4. Provide a counterexample to prove each statement is false.
 - a) The area of a rectangle is always greater than the area of a square with the same perimeter.
 - b) All rectangles are squares.
 - c) The sum of two prime numbers is never a prime number.
5. Find three consecutive integers that have a sum of -51 .