

Name: _____

Date: _____

BLM 1.1.3

Practice: Focus on Problem Solving

1. Find the next three terms in each sequence. Describe the pattern in each sequence.
 - a) 5, 8, 11, 14, 17
 - b) 6, 18, 30, 42, 54
 - c) 2, 2, 4, 6, 10
 - d) 3, 6, 12, 24, 48
2. Suppose you bought a book for \$8.16. You paid with a \$10 bill. What is the least number of coins you can receive for change? What are the coins?
3.
 - a) Copy and complete the products.
 $99 \times 9 =$
 $99 \times 99 =$
 $99 \times 999 =$
 $99 \times 9999 =$
 $99 \times 99\,999 =$
 - b) Describe the pattern in the products.
 - c) Use the pattern to find the product $99 \times 999\,999$.
4.
 - a) Write all the fractions with denominator 11 and numerators from 1 to 11. Convert each fraction to a decimal.
 - b) Describe the pattern.
 - c) How is the pattern different if the fractions have denominator 111?