Practice worksheet | Sequences and series

Financial and other sequence applications

Name: _____ Date: _____

6 questions | 13 marks

1. A AUD 1500 balance grows 3% yearly with no payments. Find its value after two years. [2 marks]

2. A theatre begins with 18 seats in row 1 and adds two per row. Find total seats in 12 rows. [2 marks]

3. A bouncing object travels 8 m on its first horizontal bounce and 75% as far on each later bounce. Find its ideal total. [2 marks]

4. AUD 100 is deposited at the start of each year for three years at 10% annual interest. Find the balance at the end of year 3. [2 marks]

5. A AUD 600 debt grows 5% before each AUD 150 repayment. Find the balance after two repayments. [2 marks]

6. A tree-count model assumes 20% growth yearly from 100 trees forever. Give its rule and one limitation. [3 marks]