Practice worksheet | Patterns and equations

Algorithms for number patterns

Name: _____ Date: _____

6 questions | 14 marks

1. Start at 3. Write five terms, adding 4 each time. [2 marks]

2. Start at 2. Write terms by doubling until you have written five terms. [2 marks]

3. Start at 0.2 and record it. Keep adding 0.2 and recording the new value while it is at most 1. Write the output. [2 marks]

4. What changes if the preceding algorithm records only values less than 1? [2 marks]

5. Write precise steps that generate 5,10,15,20 and then stop. [3 marks]

6. An algorithm starts at 1 and adds 2 until it equals 8. Why will it not stop? Give a repair. [3 marks]