1. (D) a2 = 5, a3 = 8, a4 = 12, a5 = 17. Therefore, S5 = 45

2. \* (D) Press 5 ENTER into your graphing calculator. Then enter and press ENTER twice more to get a3.

3. \* (C) The decimal = 0.2 + (0.037 + 0.00037 + 0.0000037 + · · ·), which is 0.2 + an infinite geometric series with a common ratio of 0.01. The sum of the numerator and the denominator is 245.

4. (D) Terms are 31/4, 31/8, 1. Common ratio = 3–1/8. Therefore, the fourth term is 1 · 3–1/8 = 3–1/8 or

5. (C) Arithmetic mean Geometric mean The difference is 8.

6 (D) Therefore,