DoNow practice for familiarity and speed   Name:

Work these problems rapidly in the space provided.

1. For each example, write down whether it is a sequence or series; whether it is "arithmetic", "geometric", or neither; and find its common difference or ratio, showing working as an equation. (see example, #a).

   (a) $2 + 5 + 8 + 11 + \ldots$

        Solution: arithmetic series, $d = 5 - 2 = 3$

   (b) $3, 6, 12, 24, 48, \ldots$

   (c) $1, 1, 2, 3, 5, 8, 13, 21, 34 \ldots$

   (d) $125 - 25 + 5 - 1 \ldots$

   (e) $\dfrac{1}{2} + \dfrac{1}{3} + \dfrac{1}{4} + \dfrac{1}{5} + \ldots$

2. Find the 5-figure summary statistics of the following data (without a calculator):
   .   5 14 3 6 15 11 9 7 14
   Show working by first, listing the data in order, and second, by making a mark at each of the five positions. Finally, complete a-g (show working for the range and IQR).

   (a) Minimum =

   (b) $Q_1 =$

   (c) Median =

   (d) $Q_3 =$

   (e) Maximum =

   (f) Range =

   (g) IQR =