

## 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)  $2 + 5 + 8 + 11 + \dots$

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

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

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

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

(e)  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \dots$

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 =