Exponential Functions

(crossword grid)

Across: 1. RECURSIVEPATTERN
2. GEOMETRICSEQUENCES (down)
3. EXPONENTIALFUNCTION (down)
4. RECURSIVEFORMULA (down)
5. EXPONENTIALDECAY (down)
6. EXPLICITFORMULA (down)
7. HALFLIFE (down)
8. COMMONRATIO (down)
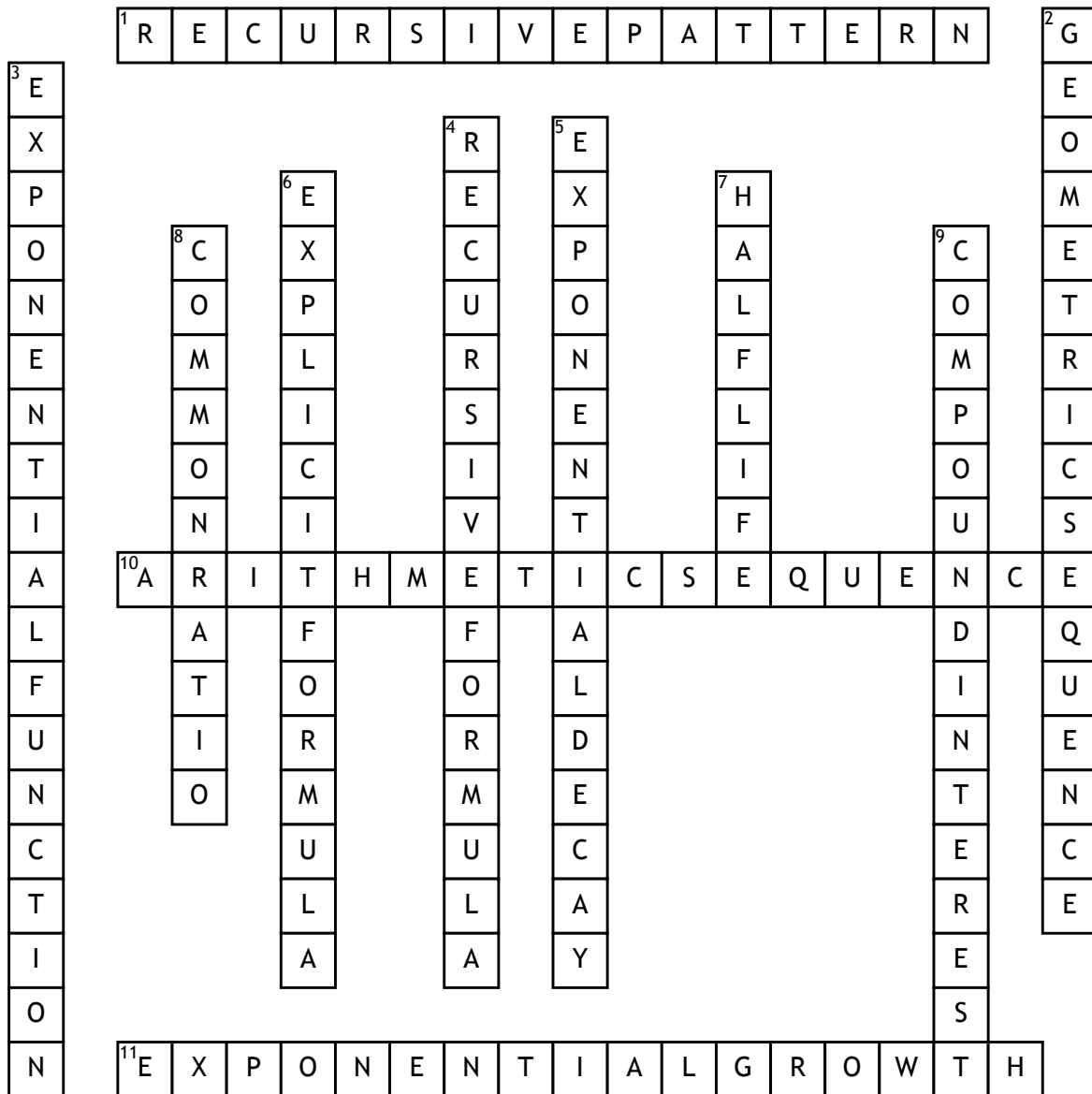9. COMPOUNDINTERES (down)
10. ARITHMETICSEQUENCE
11. EXPONENTIALGROWTH

Across

1. each term is defined using one or more previous terms

10. A sequence whose successive terms differ. by the same nonzero number

11. an exponential function of the form f(x)=ab in which b>1

Down

2. a sequence in which each term after the first term a is obtained by multiplying the previous term by a constant r, called the common ratio.

3. function whose value is a constant raised to the poer of the arument

4. A formula for a sequence in which one or more previous terms are used to generate the next term

5. an exponential function of the form f(x)=ab in which 0<b<1

6. If you can find an explicit formula for a sequence, you will be able to quickly and easily find any term in the sequence simply by replacing n with the number of the term you seek.

7. he half-life of a substance is the time it takes for one-half of the substance to decay into another substance

8. the ratio of a term to the previous term. This ratio is usually indicated by the variable r.

9. Interest earned or paid on both the principal and previously earned interest