**Crack the Code**

**Arithmetic Sequences**

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | Find the next term in the sequence$$2, 6, 10, 14,…$$ | **B** | Find the next term in the sequence$$4.5, 6, 7.5, 9, 10.5,…$$ |
| **C** | Find the next term in the sequence$$3, 8, 13, 18,…$$ | **D** | Find the next term in the sequence$$10, 7, 4, 1,…$$ |
| **E** | What are the first three terms of the sequence with first term 8 and term-to-term rule “add 3”? | **F** | What are the first three terms of the sequence with first term 5 and term-to-term rule “subtract 2”? |
| **G** | Find the 10th term of the sequence with nth term $3n – 7$. | **H** | Find the 15th term of the sequence with nth term $2n + 11$. |
| **I** | Find the 4th term of the sequence with nth term $20 – 3n$. | **J** | Find the 3rd term of the sequence with nth term $-7n - 4$. |
| **K** | Find the nth term for this sequence:$$1, 4, 7, 10,…$$ | **L** | Find the nth term for this sequence:$$-7, -9, -11, -13,…$$ |
| **M** | Find the nth term for this sequence:$$0, 3, 6, 9,…$$ | **N** | Find the nth term for this sequence:$$21, 24, 27, 30,…$$ |
| **O** | Find the nth term for this sequence:$$1, 9, 17, 25,…$$ | **P** | Find the nth term for this sequence:$$5, 12, 19, 26,…$$ |
| **Q** | Find the nth term for this sequence:$$6, 4, 2, 0,…$$ | **R** | Find the nth term for this sequence:$$13, 7, 1, -5,…$$ |
| **S** | Find the nth term for this sequence:$$16, 13, 10, 7,…$$ | **T** | Find the nth term for this sequence:$$1, 1.5, 2, 2.5,…$$ |
| Add together all your answers to get the three-digit code.(For $4n-1$, add $+4$ and $-1$) |