Year 8 Sequences, Functions and Graphs – Foundation

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Year 8 · Maths · Sequences, Functions and Straight-Line Graphs · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Sequence and function skills

1. Find the nth term of the sequence 14, 21, 28, 35, ... Answer _____

2. Find the nth term of the sequence 15, 21, 27, 33, ... Answer _____

3. The nth term of a sequence is −(1/2)n + 3. Write the first four terms.

Answer _____

4. The nth term of a sequence is −2n + 7. Write the first four terms.

Answer _____

5. Write the term-to-term rule and the next two terms: 1, 1 3/4, 2 1/2, 3 1/4, ...

Answer _____

6. Write the term-to-term rule and the next two terms: 0, 1/6, 1/3, 1/2, ...

Answer _____

7. A function machine is input → × 1/2 → + 6 → output. Find the output when the input is 6.

Answer _____

8. A function machine is input → × 5/2 → + 4 → output. The output is 29. Use inverse operations to find the input.

Answer _____

9. Write down the gradient and the y-intercept of the line $y = x - 6$.

Answer _____

10. Write down the gradient and the y-intercept of the line $y = -6 - 2x$.

Answer _____