

Math Models
Find the Pattern WS

Name: _____ Period: _____

Find a pattern for each sequence. Use the pattern to show the next two terms. Show all work to justify your answer. Explain in complete sentences the process needed to get the next number.

1. 17, 23, 29, 35, 41, _____, _____, ...

Explanation: _____

2. 1.01, 1.001, 1.0001, _____, _____, ...

Explanation: _____

3. 12, 14, 18, 24, 32, _____, _____, ...

Explanation: _____

4. 2, -4, 8, -16, 32, _____, _____, ...

Explanation: _____

5. 1, 2, 4, 7, 11, 16, _____, _____, ...

Explanation: _____

6. 32, 48, 56, 60, 62, 63, _____, _____, ...

Explanation: _____

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7. 384, 192, 96, 48, _____, _____, ...

Explanation: _____

8. 1, 2, 7, 11, 16, 22, _____, _____, ...

Explanation: _____

9. 1, 4, 9, 16, 25, 36, _____, _____, ...

Explanation: _____

10. 3, -6, 18, -72, 360, _____, _____, ...

Explanation: _____

11. -7, -21, -63, -189, _____, _____, ...

Explanation: _____

12. 5.01, 5.03, 5.05, 5.07, _____, _____, ...

Explanation: _____

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13. 0, 1, 3, 6, 10, _____, _____, ...

Explanation: _____

14. 20, 22, 25, 29, 34, 40, _____, _____, ...

Explanation: _____

15. -2, 1, 4, 7, 10, _____, _____, ...

Explanation: _____

16. -10, -4, 6, 20, 38, _____, _____, ...

Explanation: _____

17. 16, 4, 1, $\frac{1}{4}$, $\frac{1}{16}$, _____, _____, ...

Explanation: _____

18. 6, 4, 2, 0, -2, -4, _____, _____, ...

Explanation: _____

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19. 11, 5, -1, -7, -13, _____, _____, ...

Explanation: _____

20. 0, 12, -12, 36, -60, _____, _____, ...

Explanation: _____