



Math worksheet on '*Patterning - First Values from Rule for Decreasing Arithmetic Pattern (Level 1)*'.
Part of a broader unit on '*Patterns and Sums - Intro*'

Learn online: app.mobius.academy/math/units/patterns_and_sums_intro/

1

Choose the first values that this pattern rule would create

Start at 31 and subtract 6 for each term

- | | |
|----------|------------------------|
| a | 31, 24, 17, 10, 3 |
| b | 33, 27, 21, 15, 9 |
| c | 31, 186, 1,116, 6,696, |
| d | 31, 37, 43, 49, 55 |
| e | 31, 25, 19, 13, 7 |
| f | 31, 29, 27, 25, 23 |

2

Choose the first values that this pattern rule would create

Start at 13 and subtract 2 for each term

- | | |
|----------|----------------------|
| a | 13, 26, 52, 104, 208 |
| b | 13, 15, 17, 19, 21 |
| c | 13, 15, 28, 43, 71 |
| d | 10, 8, 6, 4, 2 |
| e | 13, 9, 5, 1, -3 |
| f | 13, 11, 9, 7, 5 |

3

Choose the first values that this pattern rule would create

Start at 18 and subtract 3 for each term

- | | |
|----------|-------------------------|
| a | 18, 54, 162, 486, 1,458 |
| b | 22, 19, 16, 13, 10 |
| c | 21, 18, 15, 12, 9 |
| d | 18, 17, 16, 15, 14 |
| e | 18, 15, 12, 9, 6 |
| f | 20, 17, 14, 11, 8 |

4

Choose the first values that this pattern rule would create

Start at 11 and subtract 2 for each term

- | | |
|----------|---------------------|
| a | 11, 13, 15, 17, 19 |
| b | 11, 22, 44, 88, 176 |
| c | 8, 6, 4, 2, 0 |
| d | 11, 9, 7, 5, 3 |
| e | 11, 5, -1, -7, -13 |
| f | 12, 10, 8, 6, 4 |

5

Choose the first values that this pattern rule would create

Start at 13 and subtract 3 for each term

- | | | | |
|----------|----------------|----------|------------------|
| a | 13, 13, 13, 13 | b | 15, 12, 9, 6 |
| c | 13, 10, 7, 4 | d | 13, 39, 117, 351 |
| e | 13, 16, 19, 22 | f | 13, 16, 29, 45 |

6

Choose the first values that this pattern rule would create

Start at 23 and subtract 4 for each term

- | | |
|----------|--------------------|
| a | 26, 22, 18, 14, 10 |
| b | 23, 16, 9, 2, -5 |
| c | 21, 17, 13, 9, 5 |
| d | 20, 16, 12, 8, 4 |
| e | 23, 27, 31, 35, 39 |
| f | 23, 19, 15, 11, 7 |

7

Choose the first values that this pattern rule would create

Start at 22 and subtract 4 for each term

- | | |
|----------|---------------------|
| a | 21, 17, 13, 9, 5 |
| b | 22, 15, 8, 1, -6 |
| c | 22, 26, 48, 74, 122 |
| d | 22, 88, 352, 1,408, |
| e | 22, 18, 14, 10, 6 |
| f | 22, 22, 22, 22, 22 |