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

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1

Choose the first values that this pattern rule would create

Start at 2 and multiply by 4 for each term

a 2, 12, 72, 432		**b** 2, 6, 10, 14	
c 2, 8, 32, 128		**d** 4, 16, 64, 256	
e 2, 6, 8, 14		**f** 2, -2, -6, -10	

2

Choose the first values that this pattern rule would create

Start at 3 and multiply by 2 for each term

a	3, -3, 3, -3, 3, -3
b	3, 9, 27, 81, 243, 729
c	3, 6, 12, 24, 48, 96
d	3, 1, -1, -3, -5, -7
e	-1, -2, -4, -8, -16, -32
f	2, 4, 8, 16, 32, 64

3

Choose the first values that this pattern rule would create

Start at 3 and multiply by 5 for each term

a 3, 8, 13, 18		**b** 6, 30, 150, 750	
c 3, 24, 192, 1,536		**d** 3, -2, -7, -12	
e 3, 15, 75, 375		**f** 3, 12, 48, 192	

4

Choose the first values that this pattern rule would create

Start at 2 and multiply by 5 for each term

a	2, -3, -8, -13
b	2, 7, 9, 16
c	4, 20, 100, 500
d	-2, -10, -50, -250
e	2, 10, 50, 250
f	1, 5, 25, 125

5

Choose the first values that this pattern rule would create

Start at 3 and multiply by 4 for each term

a -1, -4, -16, -64		**b** 5, 20, 80, 320	
c 3, 7, 11, 15		**d** 3, 12, 48, 192	
e 3, 9, 27, 81		**f** 3, -1, -5, -9	

6

Choose the first values that this pattern rule would create

Start at 1 and multiply by 2 for each term

a	-2, -4, -8, -16, -32, -64
b	1, 5, 25, 125, 625,
c	1, -1, -3, -5, -7, -9
d	1, 2, 4, 8, 16, 32
e	1, 3, 4, 7, 11, 18
f	1, 3, 5, 7, 9, 11

7

Choose the first values that this pattern rule would create

Start at 2 and multiply by 3 for each term

a	3, 9, 27, 81, 243, 729
b	2, 4, 8, 16, 32, 64
c	2, 5, 7, 12, 19, 31
d	2, 6, 18, 54, 162, 486
e	2, -1, -4, -7, -10, -13
f	2, 0, 0, 0, 0, 0

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