

Sequences

An **arithmetic** sequence changes by ...

A **geometric** sequence changes by ...

Other sequences may change by ...

Arithmetic sequences

3, 5, 7, 9, 11, ...

19, 12, 5, -2, ...

12, 23, 34, 45, ...

Formula:

Geometric sequences

4, 8, 16, 32, ...

75, 15, 3, $\frac{3}{5}$, ...

-5, 15, -45, 135, ...

Other sequences

1, 1, 2, 3, 5, 8, ...

1, 11, 111, 1111, ...

1, 4, 9, 16, 25, ...

22, 202, 2002, 20002, ...

Now you decide what type of sequence (A=arithmetic; G=geometric; O=Other)

	Sequence type	Formula or pattern
0, 3, 6, 9, 12, ...	_____	_____
0, 50, 100, 150, ...	_____	_____
3, 6, 12, 24, 48, ...	_____	_____
7, 77, 777, 7777, ...	_____	_____
1, 10, 100, 1000, ...	_____	_____
9, 2, -5, -12, -19, ...	_____	_____
1, 8, 27, 64, 125, ...	_____	_____
1, 1/3, 1/9, 1/27, ...	_____	_____