

1.1

Sequence (Add)
Arithmetic Sequence

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ...
∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨
2 2 2 2 2 2 2 2 2

1, 2, 4, 7, 11, 16, 22, 29
∨ ∨ ∨ ∨ ∨ ∨ ∨
1 2 3 4 5 6 7 First Difference
∨ ∨ ∨ ∨ ∨ ∨
1 1 1 1 1 1 Second Difference

Geometric Sequence (Multiply)

1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024
∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨
1 2 4 8 16 32 64 128 256 512
∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨
1 2 4 8 16 32 64 128 256
∨ ∨ ∨ ∨ ∨ ∨ ∨
1 2 4 8 16 32 64 128
∨ ∨ ∨ ∨ ∨ ∨
1 2 4 8 16 32 64
∨ ∨ ∨ ∨ ∨
1 2 4 8 16 32
∨ ∨ ∨ ∨
1 2 4 8
∨ ∨ ∨
1 2 4
∨ ∨
1 2
∨
1

1, 4, 9, 16, 25, 36, 49, 64, 81, 100

$\sqrt{3}$ $\sqrt{5}$ $\sqrt{7}$ $\sqrt{9}$ $\sqrt{11}$ $\sqrt{13}$ $\sqrt{15}$ $\sqrt{17}$ $\sqrt{19}$
 $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$

exponent

base $2^2 = 4$
 $3^2 = 9$
 $4^2 = 16$

∴

$$2 \times 2 = 4$$

∴

$$3 \times 3 = 9$$

∴

$$4 \times 4 = 16$$

⑫

$$3 \times 4$$

∴

$$6 \times 2$$

$$12 \times 1$$

1, 8, 27, 64, 125, 216, ...

p 12

1-4 All

14-22 E

25-32 All