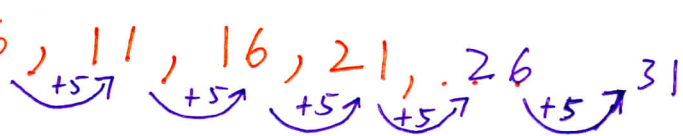


Exc 1

Number Patterns

①

a) $6, 11, 16, 21, \dots, 26, 31$

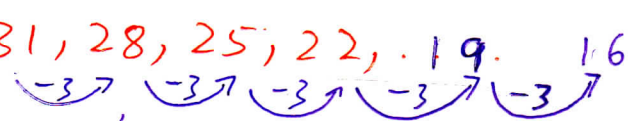


$$11 - 6 = 5$$

$$16 - 11 = 5$$

$$21 - 16 = 5$$

b) $31, 28, 25, 22, \dots, 19, 16$

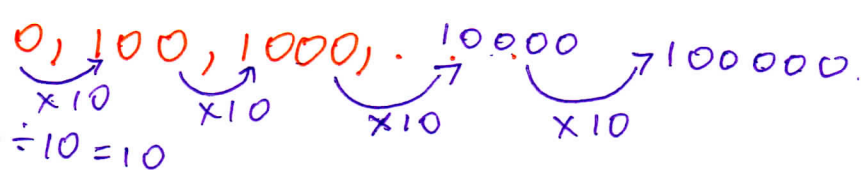


$$28 - 31 = -3$$

$$25 - 28 = -3$$

$$22 - 25 = -3$$

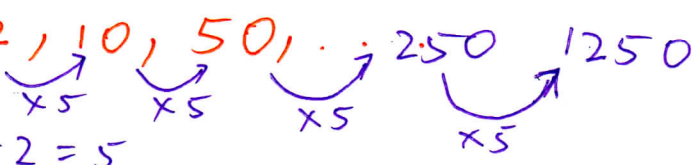
c) $10, 100, 1000, \dots, 100000$



$$100 \div 10 = 10$$

$$1000 \div 100 = 10$$

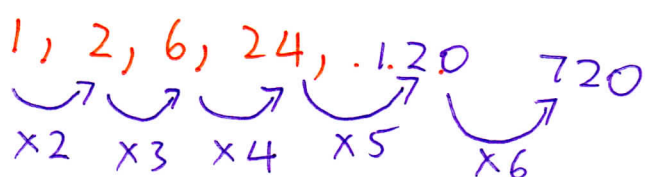
d) $2, 10, 50, \dots, 250, 1250$



$$10 \div 2 = 5$$

$$50 \div 10 = 5$$

e) $1, 2, 6, 24, \dots, 120, 720$



$$2 \div 1 = 2$$

$$6 \div 2 = 3$$

$$24 \div 6 = 4$$

Number Pattern

②

f) 1, 8, 27, 64; .. 125 216
 $1^3 \quad 2^3 \quad 3^3 \quad 4^3 \quad 5^3 \quad 6^3$

g) 52, 47, 42, 37, .. 32 27
 $47 - 52 = -5$
 $42 - 47 = -5$
 $37 - 42 = -5$

h) 64, 49, 36, 25, .. 16 9
 $8^2 \quad 7^2 \quad 6^2 \quad 5^2 \quad 4^2 \quad 3^2$

i) 2, 3, 5, 8, 12, 17, .. 23
 $3 - 2 = 1$
 $5 - 3 = 2$
 $8 - 5 = 3$
 $12 - 8 = 4$

j) 4, 5, 9, 18, 34, 59, .. 95
 $5 - 4 = 1$
 $9 - 5 = 4$
 $18 - 9 = 9$
 $34 - 18 = 16$

These are
square
numbers

Number Pattern

(3)

k) 21, 23, 26, 30, 35, 41

$+2$ $+3$ $+4$ $+5$ $+6$

$23 - 21 = 2$
 $26 - 23 = 3$
 $30 - 26 = 4$

l) 7, 8, 10, 14, 22, 38, 70

$+1$ $+2$ $+4$ $+8$ $+16$ $+32$

$8 - 7 = 1$
 $10 - 8 = 2$
 $14 - 10 = 4$
 $22 - 14 = 8$

The difference between the numbers are multiplied by 2

m) 90, 10, 80, 20, 70, 30, 60, 40

$+10$ $+10$ $+10$
 -10 -10 -10

The 1st, 3rd, 5th, 7th ...
reduce by 10

The 2nd, 4th, 6th, 8th ...
increase by 10

n) 1024, 512, 256, 128, 64, 32, 16

$\times \frac{1}{2}$ $\times \frac{1}{2}$ $\times \frac{1}{2}$ $\times \frac{1}{2}$ $\times \frac{1}{2}$ $\times \frac{1}{2}$

$512 \div 1024 = \frac{1}{2}$
 $256 \div 512 = \frac{1}{2}$
 $128 \div 256 = \frac{1}{2}$
 $64 \div 128 = \frac{1}{2}$