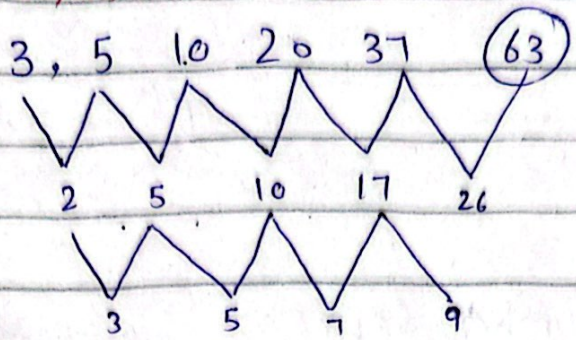
11 August, 2024 G.S.A (Math) Sunday

Assignment

Find the missing term in given series.

1) 3, 5, 10, 20, 37

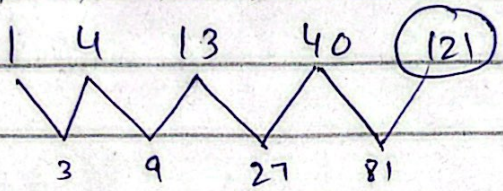


26 + 37 = 63

2) $1, \frac{1}{4}, \frac{1}{13}, \frac{1}{40}, \ldots$

Taking Reciprocal

1, 4, 13, 40, ...



40 + 81 = 121

Required Series

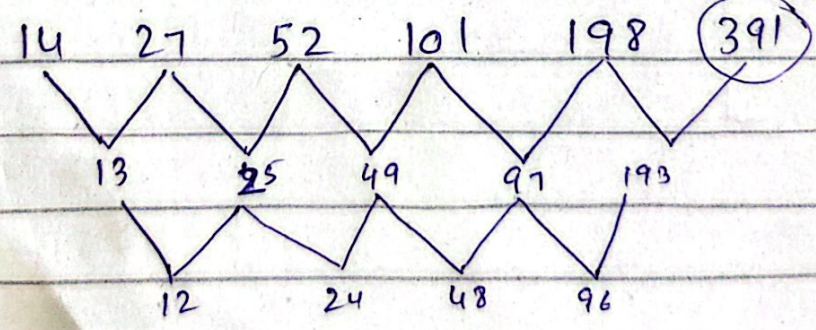
$1, \frac{1}{4}, \frac{1}{13}, \frac{1}{40}, \frac{1}{121}, \ldots$

3) 8, 5, 13, 11, 18, 17, 23, 23, 28

8, 5, 13, 11, 18, 17, 23, 23, 28, 29

5 5 5 5

4) 14, 27, 52, 101, 198, ...

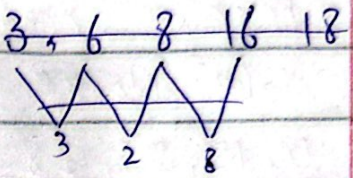


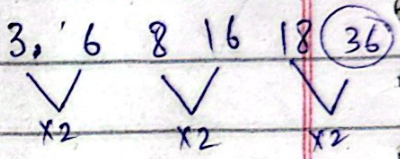
5) 1, 8, 4, 27, 9, ...

$= 1^2, 2^3, 2^2, 3^3, 3^2, 4^3, 3^2, \ldots$

= 1, 8, 4, 27, 9, 64, 16, ...

6) 3, 6, 8, 16, 18, ——





7) 2, 8, 512, ...

$2^1, 2^3, 2^9, 2^{27}$...

= 2, 8, 512, 134217728, ...

8) 4, 16, 36, 64, ...

4, 16, 36, 64, (100)

12, 20, 28, 36

8, 8, 8

9) 30, 29, 27, ____, 20, 15

30, 29, 27, (30), 20, 15

1, 3, 5

10) 1, 7, 15, 25, ____, 51

1, 7, 15, 25, (37), 51

6, 8, 10, 12, 14

) 48, 24, 72, 36, 108, ____

48, 24, 72, 36, 108, (54)

÷2, ÷2, ÷2

0, 2, 6, 12, 20, 30, ...

0, 2, 6, 12, 20, 30, (42)

2, 4, 6, 8, 10, 12

2 | 512
2 | 256
2 | 128
2 | 64
2 | 32
2 | 16
2 | 8
2 | 4
2 | 2
1

9x9x9

512
x 512
1024
512x
2560xx
262144
+ 512
524288
2621440x
13107200xx
13421772 8

1 August, 2024 G.S.A (Math) Sunday

Assignment

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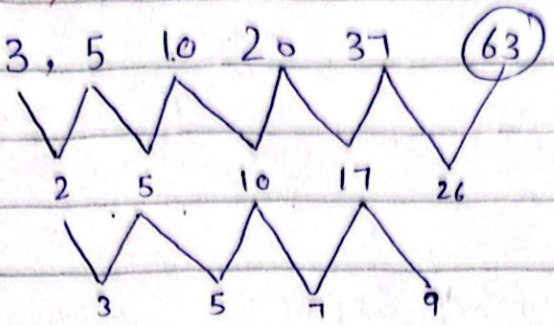
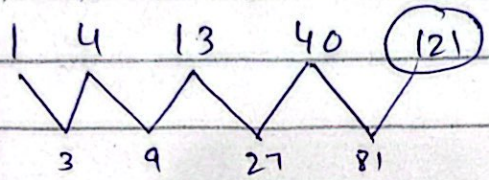


2) $1, \frac{1}{4}, \frac{1}{13}, \frac{1}{40}, \ldots$

Taking Reciprocal

1, 4, 13, 40, ...



Required Series

$1, \frac{1}{4}, \frac{1}{13}, \frac{1}{40}, \frac{1}{121}, \ldots$

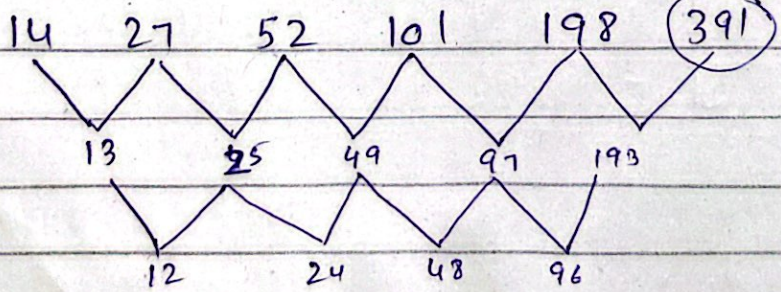
3) 8, 5, 13, 11, 18, 17, 23, 23, 28

8, 5, 13, 11, 18, 17, 23, 23, 28 29

6 6 6

5 5 5 5

4) 14, 27, 52, 101, 198, ...

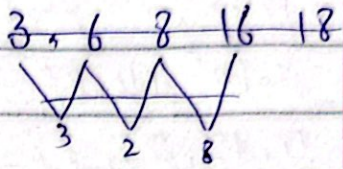


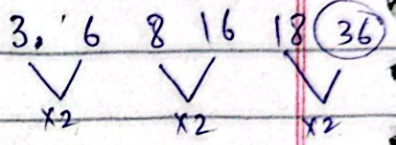
5) 1, 8, 4, 27, 9, ...

$= 1^2, 2^3, 2^2, 3^3, 3^2, 4^3, 4^2, \ldots$

$= 1, 8, 4, 27, 9, 64, 16, \ldots$

6) 3, 6, 8, 16, 18, ——





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$2^1, 2^3, 2^9, 2^{27}$ ...

= 2, 8, 512, 134217728, ...

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4, 16, 36, 64, (100)

12, 20, 28, 36

8, 8, 8

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30, 29, 27, (30), 20, 15

1, 3, 5

10) 1, 7, 15, 25, ____, 51

1, 7, 15, 25, (37), 51

6, 8, 10, 12, 14

11) 48, 24, 72, 36, 108, ____

48, 24, 72, 36, 108, (54)

÷2, ÷2, ÷2

12) 0, 2, 6, 12, 20, 30, ...

0, 2, 6, 12, 20, 30, (42)

2, 4, 6, 8, 10, 12

2 | 512
2 | 256
2 | 128
2 | 64
2 | 32
2 | 16
2 | 8
2 | 4
2 | 2
1

9×9×9

512
×512
1024
512x
2560xx
262144
×512
524288
2621440x
13107200xx
134217728

Coding / Decoding

A(1)	B(2)	C(3)	D(4)	E(5)	F(6)	G(7)	H(8)
I(9)	J(10)	K(11)	L(12)	M(13)	N(14)	O(15)	P(16)
Q(17)	R(18)	S(19)	T(20)	U(21)	V(22)	W(23)	X(24)
Y(25)	Z(26)						

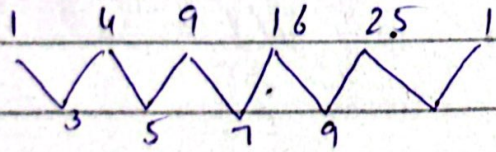
Questions

1) AB, DE, GH, JK, MN

2) PDZ, QCY, RBX, SAW

3) O, T, T, F, F, S, S, E, N, T

4) A(1), D(4), I(9), P(16), V(25), J(10), ____



5) PMT, OOS, NQR, MSQ, LUP

6) AZ, GT, MN, SH, VB

Q2) The word SUPERMAN is written as code "TTQDSLBM", then the code of SPIDERMAN?

S U P E R M A N

T T Q D S L B M

S P I D E R M A N

T O J C F Q N Z M

Q3 PAKISTAN : SCLIRRXJ

PESHAWAR : ??

P A K I S T A N

S C L I R R X J

3 2 1 0 -1 -2 -3 -4

P E S H A W A R

S G T H Z U X N

Q4 CRERTAIN : BFQUZJM

MUNDANE : ??

C E R T A I N

B F Q U Z J M

-1 +1 -1 +1 -1 +1 -1

M U N D A N E

L V M E Z M F

5) COMPUTER : RFUVQNPC

MEDICINE = ?

C(15) O(13) M(12) P(21) U(20) T(5) E(18) R

R(6) F(21) U(22) V(17) Q(14) N(16) P G

M E D I C I N E

E O J D J E F M