

Name: _____

EXPLORING PATTERNS AND SEQUENCES



Help the Number Detective solve the pattern puzzles!
Can you find the missing numbers and crack the sequence rules?

6	14	22	30	38	46
---	----	----	----	----	----

Rule =

1	3	9	27	81	243
---	---	---	----	----	-----

Rule =

37	52	67	82	97	112
----	----	----	----	----	-----

Rule =

64	32	16	8	4	2
----	----	----	---	---	---

Rule =

17	28	39	50	61	72
----	----	----	----	----	----

Rule =

160	80	40	20	10	5
-----	----	----	----	----	---

Rule =

124	112	100	88	76	64
-----	-----	-----	----	----	----

Rule =

2	6	18	54	162	486
---	---	----	----	-----	-----

Rule =

0.2	0.4	0.8	1.6	3.2	6.4
-----	-----	-----	-----	-----	-----

Rule =

0.1	0.15	0.2	0.25	0.3	0.35
-----	------	-----	------	-----	------

Rule =

$\frac{1}{4}$	1	4	16	64	256
---------------	---	---	----	----	-----

Rule =