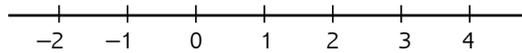


UNIT 1

SECTION 2: SIMPLE SEQUENCES

DIRECT TEACHING POINTS

- There are many opportunities within this section to teach and consolidate mental addition and subtraction strategies, for example, adding and subtracting 9.
- Counting on and back in equal steps from zero helps reinforce multiples and multiplication facts.
- Practise this work orally with written exercises used as consolidation as appropriate.
- Demonstrate to pupils the patterns in our number system.
 $6 + 5$ $16 + 5$ $96 + 5$ are basically the same calculation.
- Use a number line, extended below zero, as a visual prompt.



- Pupils find counting back more difficult than counting on. It needs more practice.



*sequence add subtract
minus multiple*

Simple sequences

1

Counting on and back in 6s



Extend each sequence by counting on or back in 6s:

1	6	12	18	.....	.....	.....	.....
2	21	27	33	.....	.....	.....	.....
3	50	56	.....	.....	.....	.....	.....
4	60	54	48	.....	.....	.....	.....
5	100	94	.....	.....	.....	.....	.....
6	52	46	.....	.....	.....	.....	.....
7	27	21	15	.....	.....	-3	.....
8	20	14	.....	.....	.....	.....	.....

2

Counting on and back in 9s



Extend each sequence by counting on or back in 9s:

1	9	18	27	.....	.....	.....	.....
2	29	38	.....	.....	.....	.....	.....
3	63	54	.....	.....	.....	.....	.....
4	65	56	.....	.....	.....	.....	.....
5	27	18	.....	.....	-9	.....	.....
6	30	21	.....	.....	-6	.....	.....
7	50	41	.....	.....	.....	.....	.....
8	6	-3	.....	.....	.....	.....	.....

Simple sequences

3

Rules for counting on and back



What is the rule?
Extend each sequence:

1	Rule: add 8	4	12	.....	.....	.....	.....	.....
2	Rule: add	5	12	.....	.....	.....	.....	.....
3	Rule: add	21	27	.....	.....	.....	.....	.....
4	Rule: subtract 9	83	74	65	.....	.....	.....	.....
5	Rule:	78	70	62	.....	.....	.....	.....
6	Rule:	-2	2	.....	.....	.....	.....	.....
7	Rule:	18	29	.....	.....	.....	.....	.....
8	Rule:	50	75	100	.....	.....	.....	.....



3

From sequences to rules



50-52 correct 2 stars
42-49 correct 1 star

What is the rule?
Extend each sequence:

1	Rule:	43	51	.....	.....	.....	83	.....
2	Rule:	34	45	.....	.....	.....	89	.....
3	Rule:	150	.....	.....	225	250	.....	.....
4	Rule:	5	30	55	.....	.....	.....	.....
5	Rule:	90	81	72	.....	.....	.....	.....
6	Rule:	-3	3	.....	15	.....	.....	33
7	Rule:	-30	-21	-12	.....	.....	.....	24
8	Rule:	7	13	.....	.....	.....	.....	43

Simple sequences



Rules and patterns



All correct 1 star

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90

1 Look at the column with 8 at the top.
What is the rule connecting this sequence of numbers?

.....

2 Start with 8.
Circle each number that is made by adding 7 onto the last number.

.....

3 Describe the pattern made by the numbers you have circled.

.....
