Investigate and create patterns

NAME	DATE

1 Look at the coloured numbers. Write the next number. Write how the tens and ones digits change.

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
91	92	93	94	95	96	97	98	99	100

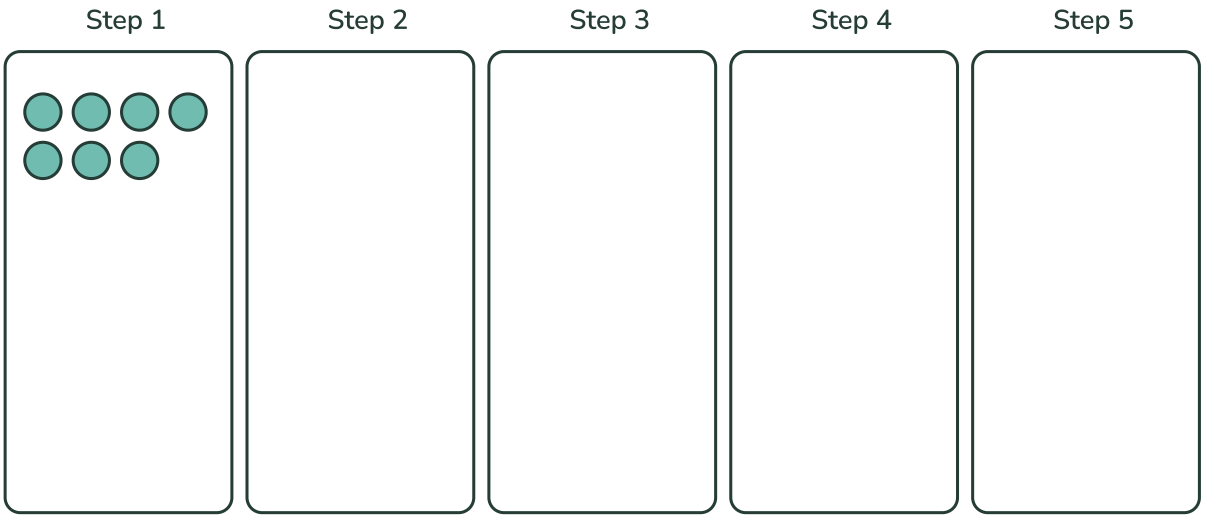
Next: ☐ Tens ☐ Ones ☐

2 Write the next three numbers in this pattern.

111	105	99	93			

Investigate and create patterns

3 The first step has 7 dots. Make 5 growing steps. Add 1, 2 or 3 dots each time. Write how many you add.



I add this many each time: ☐

4 Make a repeating pattern with big and small shapes. Use circles and squares. Draw four shapes, then repeat that part.



First four shapes Repeat

Investigate and create patterns

1. Next is 57. Tens increase by 1 and ones increase by 1 at each step in this example. Both the next number and the digit changes are required; a number alone is supporting pattern completion.

Evidence for the stated action: Checks the bounded response named here against the supplied problem. A single example does not certify the whole parent skill or outcome.

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
91	92	93	94	95	96	97	98	99	100

Next: 57

Tens: 1

Ones: 1

Next is 57. Tens increase by 1 and ones increase by 1 at each step in this example. Both the next number and the digit changes are required; a number alone is supporting pattern completion.

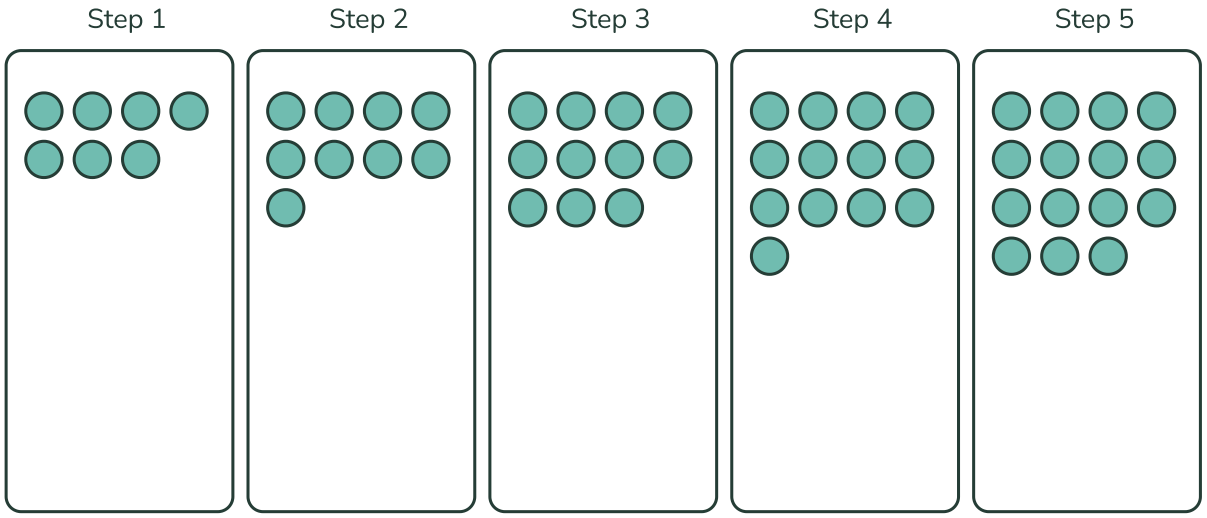
2. 87, 81, 75

Evidence for the stated action: Checks the bounded response named here against the supplied problem. A single example does not certify the whole parent skill or outcome.

Investigate and create patterns

3. 5 stages start at 7. The child chooses a fixed increase of 1, 2 or 3; every stage has that many more dots. The recorded increase must match every change. The key shows +2, but +1 and +3 are also valid. A changing increase or isolated totals do not count.

Evidence for the stated action: Checks the bounded response named here against the supplied problem. A single example does not certify the whole parent skill or outcome.



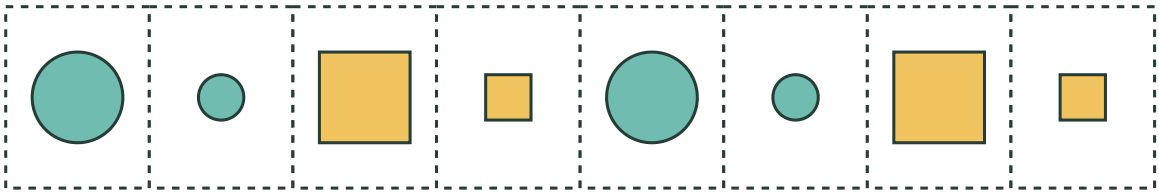
I add this many each time: 2

5 stages start at 7. The child chooses a fixed increase of 1, 2 or 3; every stage has that many more dots. The recorded increase must match every change. The key shows +2, but +1 and +3 are also valid. A changing increase or isolated totals do not count.

4. Eight elements show two copies of a core of at most four. Both size and shape must vary within the core. Accept any correctly repeated arrangement satisfying both attributes, including a shorter valid core repeated to fill the row. Colour alone is not a required distinction; the task works with a pencil.

Evidence for the stated action: Creates a four-element core and repeats it twice; both attributes must vary. Identifying a supplied core is not credited as creation.

Investigate and create patterns



First four shapes Repeat

Eight elements show two copies of a core of at most four. Both size and shape must vary within the core. Accept any correctly repeated arrangement satisfying both attributes, including a shorter valid core repeated to fill the row. Colour alone is not a required distinction; the task works with a pencil.