pescribing number sequences

What is the tenth number in each of these sequences?

- 0 5
- 10
- 15
- 20
- 25

- 2 4
- q
- 14
- 19
- 24

- 3
- 13
- 23
- 33
- 43

- 3 25
- 50
- 75
- 100
- 125

- **5** 10
- 19
- 28
- 37
- 46

- 6 21
- 41
- 61
- 81
- 101

- $\frac{1}{4}$
- $\frac{1}{2}$
- $\frac{3}{4}$
- 1
- $1\frac{1}{4}$

- 8 1.1
- 1.6
- 2.1
- 2.6
- 3.1

- 9
- 8
- 15
- 22
- 29

- 0.7
- 1.2
- 1.7
- 2.2
- 2.7

- **1** 4
- 15
- 26
- 37
- 48

- 0.6
- 0.9
- 1.2
- 1.5
- 1.8

- **E** $1\frac{1}{2}$
- 2
- $2\frac{1}{2}$
- 3
- $3\frac{1}{2}$

- **1**5
- 30
- 45
- 60
- 75



Write the next two numbers in each sequence. Then predict the tenth number. In words, write the rule that you must follow to predict any number in the sequence.

- 1 II 2I 3I 4I 5I
- 2 7 12 17 22 27
- 3 9 19 29 39 49
- 43 23 33 43 53



Copy and complete each table. Write each rule using n.

5 Rule: Double the number, add 3.

ı	2	3	4	5	6	7	8	q	10
5	7								

6 Rule: Multiply by 4, add I.

1	2	3	4	5	6	7	8	q	10
5				21					

Rule: Multiply by 5, subtract 2.

1	2	3	4	5	6	7	8	q	10
3					28				

Write the next two numbers in each sequence.

2

7 17 37

18

77

5

6

q

45

Copy and complete each table. Write each rule using n.

Rule: Double the number, add 13.

1	2	2	,	_					
		3	4	5	6	7	8	a	10
15	17						0	٦	10
13	- 17								

Rule: Multiply by 3, add 9.

1	2	3	4	5	6	7	8	a	10
12									10

Rule: Multiply by 6, subtract 6.

1	2	3	4	5	6	7	8	q	10
0					30				

Write the first six numbers and the 10th number in each sequence using the rule given.

6 3n + 2

1	2	3	4	5	6	 10

5n − 2

1	2	3	4	5	6	 10

I am confident with finding patterns in number sequences and working out later numbers.

Write the next two numbers in each sequence.

2

7 17

37

77

2 5

9

18 45

Copy and complete each table. Write each rule using n.

Rule: Double the number, add 13.

1	2	3	4	5	6	7	8	q	10
15	17								

Rule: Multiply by 3, add 9.

I	2	3	4	5	6	7	8	q	10
12		18							

Rule: Multiply by 6, subtract 6.

ı	2	3	4	5	6	7	8	q	10
0					30				

Write the first six numbers and the 10th number in each sequence using the rule given.

6 3n + 2

1	2	3	4	5	6	 10

7 5n - 2

1	2	3	4	5	6	•••	10