

# Generate and Describe Linear Number Sequences

1. The formula  $3n - 1$  can be used to calculate the value of these terms in this sequence.

2     5     8     11

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 10<sup>th</sup> term. \_\_\_\_\_

2. The formula  $5n - 2$  can be used to calculate the value of these terms in this sequence.

3     8     13     18

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_

3. The formula  $4n + 2$  can be used to calculate the value of these terms in this sequence.

6     10     14     18

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_

4. The formula  $2n + 7$  can be used to calculate the value of these terms in this sequence.

9     11     13     15

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_

5. The formula  $6n + 4$  can be used to calculate the value of these terms in this sequence.

10     16     22     28

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 10<sup>th</sup> term. \_\_\_\_\_

6. The formula  $7n - 5$  can be used to calculate the value of these terms in this sequence.

2     9     16     23

Find the 9<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_

7. The formula  $7n - 5$  can be used to calculate the value of these terms in this sequence.

2     9     16     23

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 10<sup>th</sup> term. \_\_\_\_\_

8. The formula  $4n + 9$  can be used to calculate the value of these terms in this sequence.

13     17     21     25

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_

# Generate and Describe Linear Number Sequences

1. The formula  $4n - 3$  can be used to calculate the value of these terms in this sequence.

1      5      9      13

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

2. The formula  $9n + 9$  can be used to calculate the value of these terms in this sequence.

18    27    36    45

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

3. The formula  $8n + 2$  can be used to calculate the value of these terms in this sequence.

10    18    26    34

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 14<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

4. The formula  $9n - 6$  can be used to calculate the value of these terms in this sequence.

3      12    21    30

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_ Find the 19<sup>th</sup> term. \_\_\_\_\_

5. The formula  $5n - 5$  can be used to calculate the value of these terms in this sequence.

0      5      10    15

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

6. The formula  $6n + 9$  can be used to calculate the value of these terms in this sequence.

15    21    27    33

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

7. The formula  $8n - 4$  can be used to calculate the value of these terms in this sequence.

4      12    20    28

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_ Find the 16<sup>th</sup> term. \_\_\_\_\_

8. The formula  $8n + 4$  can be used to calculate the value of these terms in this sequence.

12    20    28    36

Find the 9<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

# Generate and Describe Linear Number Sequences

1. The formula  $9n - 2$  can be used to calculate the value of these terms in this sequence.

7      16      25      34

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

2. The formula  $7n + 2$  can be used to calculate the value of these terms in this sequence.

9      16      23      30

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 10<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

3. The formula  $9n + 2$  can be used to calculate the value of these terms in this sequence.

11      20      29      38

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

4. The formula  $7n + 6$  can be used to calculate the value of these terms in this sequence.

13      20      27      34

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

5. The formula  $8n + 5$  can be used to calculate the value of these terms in this sequence.

13      21      29      37

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

6. The formula  $4n - 8$  can be used to calculate the value of these terms in this sequence.

-4      0      4      8

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_ Find the 16<sup>th</sup> term. \_\_\_\_\_

7. The formula  $6n + 3$  can be used to calculate the value of these terms in this sequence.

9      15      21      27

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_ Find the 15<sup>th</sup> term. \_\_\_\_\_

8. The formula  $9n + 4$  can be used to calculate the value of these terms in this sequence.

13      22      31      40

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

# Generate and Describe Linear Number Sequences

1. The formula  $22n - 3$  can be used to calculate the value of these terms in this sequence.

19    41    63    85

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

2. The formula  $22n - 9$  can be used to calculate the value of these terms in this sequence.

13    35    57    79

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

3. The formula  $28n + 3$  can be used to calculate the value of these terms in this sequence.

31    59    87    115

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 14<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

4. The formula  $29n + 2$  can be used to calculate the value of these terms in this sequence.

31    60    89    118

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_ Find the 19<sup>th</sup> term. \_\_\_\_\_

5. The formula  $29n + 1$  can be used to calculate the value of these terms in this sequence.

30    59    88    117

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

6. The formula  $22n + 4$  can be used to calculate the value of these terms in this sequence.

26    48    70    92

Find the 5<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

7. The formula  $21n - 5$  can be used to calculate the value of these terms in this sequence.

16    37    58    79

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_ Find the 16<sup>th</sup> term. \_\_\_\_\_

8. The formula  $29n - 7$  can be used to calculate the value of these terms in this sequence.

22    51    80    109

Find the 9<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

# Generate and Describe Linear Number Sequences

1. The formula  $26n + 5$  can be used to calculate the value of these terms in this sequence.

31    57    83    109

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

2. The formula  $25n - 9$  can be used to calculate the value of these terms in this sequence.

16    41    66    91

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 10<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

3. The formula  $26n - 11$  can be used to calculate the value of these terms in this sequence.

15    41    67    93

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_ Find the 18<sup>th</sup> term. \_\_\_\_\_

4. The formula  $28n - 1$  can be used to calculate the value of these terms in this sequence.

27    55    83    111

Find the 8<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 20<sup>th</sup> term. \_\_\_\_\_

5. The formula  $26n - 17$  can be used to calculate the value of these terms in this sequence.

43    69    95    121

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

6. The formula  $21n - 10$  can be used to calculate the value of these terms in this sequence.

11    32    53    74

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 11<sup>th</sup> term. \_\_\_\_\_ Find the 16<sup>th</sup> term. \_\_\_\_\_

7. The formula  $28n + 7$  can be used to calculate the value of these terms in this sequence.

35    63    91    119

Find the 6<sup>th</sup> term. \_\_\_\_\_ Find the 13<sup>th</sup> term. \_\_\_\_\_ Find the 15<sup>th</sup> term. \_\_\_\_\_

8. The formula  $43n - 6$  can be used to calculate the value of these terms in this sequence.

37    80    123    166

Find the 7<sup>th</sup> term. \_\_\_\_\_ Find the 12<sup>th</sup> term. \_\_\_\_\_ Find the 17<sup>th</sup> term. \_\_\_\_\_

# Generate and Describe Linear Number Sequences Answers

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1. 20, 29
2. 38, 58
3. 26, 46
4. 21, 33
5. 34, 64
6. 58, 86
7. 37, 65
8. 37, 57

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	Term	Answer	Term	Answer	Term	Answer
1.	5	17	12	45	20	77
2.	5	54	12	117	20	189
3.	8	66	14	114	18	146
4.	7	57	11	93	19	165
5.	8	35	13	60	17	80
6.	5	39	12	81	18	117
7.	6	44	13	100	16	124
8.	9	76	12	100	18	148

	Term	Answer	Term	Answer	Term	Answer
1.	6	52	12	106	20	178
2.	7	51	10	72	17	121
3.	7	65	11	101	18	164
4.	8	62	12	90	20	146
5.	6	53	12	101	17	141
6.	7	20	11	36	16	56
7.	6	39	13	81	15	93
8.	7	67	12	112	17	157

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	Term	Answer	Term	Answer	Term	Answer
1.	5	107	12	261	20	437
2.	5	101	12	255	20	431
3.	8	227	14	395	18	507
4.	7	205	11	321	19	553
5.	8	233	13	378	17	494
6.	5	114	12	268	18	400
7.	6	121	13	268	16	331
8.	9	254	12	341	18	515

	Term	Answer	Term	Answer	Term	Answer
1.	6	161	12	317	20	525
2.	7	166	10	241	17	416
3.	7	171	11	275	18	457
4.	8	223	12	335	20	559
5.	6	173	12	329	17	459
6.	7	137	11	221	16	326
7.	6	175	13	371	15	427
8.	7	295	12	510	17	725