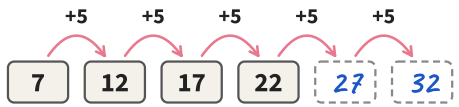
Term to term rules

ANSWERS

1

Find the term to term rule.
Write the next two terms.



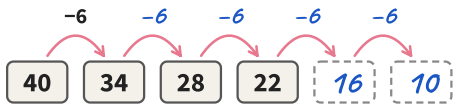
Hop: +5 every time

Next: 22 + 5 = 27, 27 + 5 = 32

Rule: add 5

2

Find the term to term rule.
Write the next two terms.



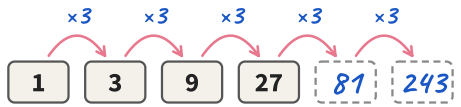
Hop: −6 every time

Next: 22 − 6 = 16, 16 − 6 = 10

Rule: subtract 6

3

Find the term to term rule.
Write the next two terms.



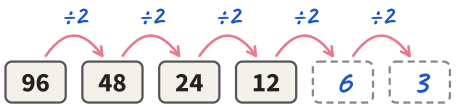
Hop: ×3 every time

Next: 27 × 3 = 81, 81 × 3 = 243

Rule: multiply by 3

4

Find the term to term rule.
Write the next two terms.



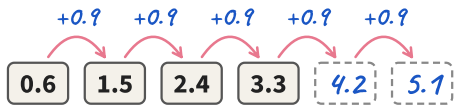
÷2 every time

12 ÷ 2 = 6, 6 ÷ 2 = 3

Rule: divide by 2

5

Find the term to term rule.
Write the next two terms.

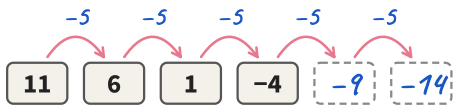


3.3 + 0.9 = 4.2, 4.2 + 0.9 = 5.1

Rule: add 0.9

6

Find the term to term rule.
Write the next two terms.

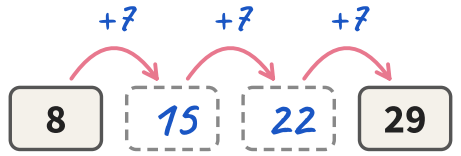


−4 − 5 = −9, −9 − 5 = −14

Rule: subtract 5

7

Find the missing terms and the term to term rule.

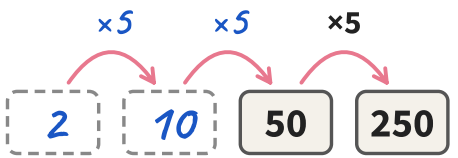


three hops make 29 − 8 = 21, 21 ÷ 3 = 7

Rule: add 7

8

The rule is multiply by 5.
Find the first two terms.



backwards: ÷ 5. 50 ÷ 5 = 10, 10 ÷ 5 = 2

First two terms: 2, 10

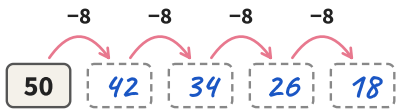
Term to term rules *further practice*

ANSWERS

9

The first term of a sequence is 50.

The rule is **subtract 8**. Write the first five terms.



Terms 50, 42, 34, 26, 18

10

A café sells 135 cups of tea on Monday. Each day after that it sells 12 fewer than the day before. How many cups of tea does it sell on Friday?

135, 123, 111, 99, 87

Answer 87

11

Hamza runs 2.4 km in week 1. Each week he runs 0.6 km more than the week before. How far does he run in week 5?

2.4, 3, 3.6, 4.2, 4.8

Answer 4.8 km

12

At 6 pm the temperature is 5 °C. It falls by 3 °C every hour. What is the temperature at 10 pm?

5, 2, −1, −4, −7

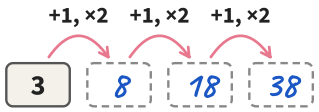
Answer −7 °C

13

The first term of a sequence is 3.
The rule is

add 1, then multiply by 2.

Write the next three terms.



Next three 8, 18, 38

14

The rule of a sequence is **divide by 2**.
The fourth term is 7.
Find the first term.

backwards: × 2. 7, 14, 28, 56

First term 56

15

A sequence adds the same number each time. The 2nd term is 9 and the 5th term is 30. Find the 1st term.

three hops make 21, so add 7. 9 − 7 = 2

1st term 2

16

Is 200 a term in the sequence

3, 6, 12, 24, …?

Explain how you know.

48, 96, 192, 384: 200 is missed

Answer No