

Name _____

Date _____

Maths vocabulary — worksheet

40 tasks in five styles, covering every key word in Unit 1.

A · Unscramble the term — Rearrange the letters to make the term that matches the definition.

1 cesuqnee

A list of numbers in a definite order.

Example: 3, 7, 11, 15, ...

2 retm

One of the numbers in a sequence.

Example: The 2nd term is 7.

3 ailenr

Going up or down by the same amount each time.

Example: 5, 9, 13, 17.

4 oopisitn

Where a term sits; $n = 1$ is the first.

Example: $n = 10$ for the 10th.

5 oufcnitn

A rule turning each input into one output.

Example: $y = 2x + 1$.

6 tniup

The number that goes in.

Example: x .

7 uuoptt

The number that comes out.

Example: y .

8 enievsr

The operation that undoes another.

Example: $\div 5$ undoes $\times 5$.

B · Fill in the gaps — Use a word from the box to complete each sentence.

9 A list of numbers in a definite order is a _____.

Word box: ☐

10 Each number in a sequence is a _____.

Word box: ☐

11 A sequence with a constant gap is _____.

Word box: ☐

12 The constant gap in such a sequence is the _____.

Word box: ☐

13 A rule giving any term from its position is the _____.

Word box: ☐

14 A rule turning each input into exactly one output is a _____.

Word box: ☐

15 The operation that undoes another is its _____.

Word box: ☐

16 To _____ is to put a number in place of a letter.

Word box: ☐

C · Choose the correct ending — Pick the reason that correctly finishes each sentence.

17 A term-to-term rule alone does not fix a sequence because ...

- ☐ it is too short
- ☐ different starting numbers give different sequences
- ☐ it has no letters

18 The coefficient of n is the common difference because ...

- ☐ it is the biggest number
- ☐ each step of 1 in position adds that much to the term
- ☐ the constant is fixed

19 Reaching the 10th term from the 1st takes 9 steps because ...

- ☐ $10 - 1 = 9$
- ☐ the first term needs no step to reach
- ☐ sequences start at 0

20 A number giving a fractional n is not in the sequence because ...

- ☐ fractions are not allowed
- ☐ positions must be whole numbers
- ☐ the rule is wrong

- 21 You undo a two-step machine in reverse order because ...
- ☐ it is quicker
 - ☐ the last operation applied must be the first undone
 - ☐ the order does not matter
- 22 “ $\times 2$ then $+ 1$ ” is written $y = 2x + 1$ rather than $y = 2(x + 1)$ because ...
- ☐ brackets are optional
 - ☐ the doubling happens before the adding
 - ☐ $2x + 1$ is simpler

D · Match the definition — Type the term that matches each definition.

- 23 Which term means: *A list of numbers in a definite order.*
-
- 24 Which term means: *One of the numbers in a sequence.*
-
- 25 Which term means: *How to get from one term to the next.*
-
- 26 Which term means: *The constant gap in a linear sequence.*
-
- 27 Which term means: *One whose gap is always the same.*
-
- 28 Which term means: *A rule giving any term from its position.*
-
- 29 Which term means: *Where a term sits; $n = 1$ is the first.*
-
- 30 Which term means: *The number multiplying a letter.*
-
- 31 Which term means: *A rule turning each input into one output.*
-
- 32 Which term means: *The number that goes in.*
-
- 33 Which term means: *The operation that undoes another.*
-
- 34 Which term means: *Arrows from each input to its output.*
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E · Reading sequence questions — What the instruction words are asking for.

- 35 A question says “find the n th term”. What form must the answer take?
- ☐ A number
 - ☐ An expression in n , such as $4n - 1$
 - ☐ A sequence
 - ☐ A rule in words

- 36** A question says “generate the first five terms”. What is wanted?
- ☐ The rule
 - ☐ Five numbers
 - ☐ The 5th term only
 - ☐ A graph
- 37** A question says “explain why 100 is not a term”. What earns the mark?
- ☐ Saying it is not
 - ☐ Showing that n comes out as a fraction
 - ☐ Listing terms
 - ☐ A drawing
- 38** A question says “describe the term-to-term rule”. What is wanted?
- ☐ $4n - 1$
 - ☐ “Add 4”
 - ☐ The first term
 - ☐ The 10th term
- 39** What does “substitute $n = 5$ ” mean?
- ☐ Solve for n
 - ☐ Replace n by 5 and work it out
 - ☐ Add 5
 - ☐ Find the 5th rule
- 40** A question gives a function machine and asks for the input. What must you do?
- ☐ Work forwards
 - ☐ Work backwards using inverses in reverse order
 - ☐ Guess
 - ☐ Add the operations