

Name _____

Date _____

Maths vocabulary — worksheet

46 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 oxerpseisn

A collection of numbers and letters with no equals sign.

Example: $5n + 4$ is an expression.

2 oqeautiln

Numbers and letters together with an equals sign.

Example: $5n + 4 = 19$ is an equation.

3 retm

One part of an expression, separated by + or –.

Example: $5n + 4$ has two terms: $5n$ and 4 .

4 tocfeficne

The number that multiplies a variable.

Example: In $5n$ the coefficient of n is 5 .

5 nocsnatt

A number on its own, whose value never changes.

Example: In $5n + 4$ the constant is 4 .

6 lavirbae

A letter representing a quantity that can change.

Example: In $A = lw$, both l and w are variables.

7 aofmrlu

A rule showing the relationship between quantities.

Example: $A = l \times w$ is the formula for the area of a rectangle.

8 tussbitute

To replace a letter with a number.

Example: Substituting $x = 4$ into $3x + 2$ gives 14 .

9 nxeapd

To multiply out brackets and write the expression without them.

Example: $4(n + 3)$ expands to $4n + 12$.

10 oosulitn

The value of the unknown that makes the equation true.

Example: The solution of $2y + 4 = 16$ is $y = 6$.

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

- 11** Terms with exactly the same letters are called _____.

Word box:

- 12** To _____ an expression means to write it as short as possible.

Word box:

- 13** To _____ brackets means to multiply out every term inside them.

Word box:

- 14** To _____ means to replace a letter with a number.

Word box:

- 15** To _____ an equation means to find the value of the unknown.

Word box:

- 16** A rule linking quantities, such as $A = lw$, is called a _____.

Word box:

- 17** The number in front of a letter is called the _____.

Word box:

- 18** A statement using $<$ or $>$ is called an _____.

Word box:

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

- 19** $5n + 4$ is an expression and not an equation because ...

- ☐ it contains a letter
- ☐ it has no equals sign
- ☐ it has two terms

- 20** $3x$ and $5x$ are like terms because ...

- ☐ they both contain a number
- ☐ they contain exactly the same letter
- ☐ they add up to $8x$

- 21** $4(n + 3) = 4n + 12$ because ...
☐ you add 4 to both terms
☐ you multiply both terms inside by the 4
☐ 4 and 3 make 12
- 22** $x + 5 = 12$ has the solution $x = 7$ because ...
☐ 7 is smaller than 12
☐ $7 + 5$ gives 12
☐ $12 - 5$ is an inverse
- 23** You subtract 4 first when solving $2y + 4 = 16$ because ...
☐ 4 is smaller than 16
☐ you undo the operations in reverse order
☐ you cannot divide 16 by 2
- 24** The smallest integer with $x > 5$ is 6 because ...
☐ 5 is not included and 6 is the next whole number
☐ 5 is included but 6 is bigger
☐ x cannot be a decimal
- 25** $3x + 4y$ cannot be simplified because ...
☐ the numbers are different
☐ the terms contain different letters
☐ there is no equals sign
- 26** $(-4)^2 = 16$ because ...
☐ a minus and a minus make a plus
☐ -4 multiplied by itself is 16
☐ squaring always removes the sign

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

- 27** Which term means: *A collection of numbers and letters with no equals sign.*

- 28** Which term means: *Numbers and letters together with an equals sign.*

- 29** Which term means: *The number that multiplies a variable.*

- 30** Which term means: *A number on its own, whose value never changes.*

- 31** Which term means: *A rule showing the relationship between quantities.*

- 32** Which term means: *To replace a letter with a number.*

- 33** Which term means: *To multiply out brackets and write the expression without them.*

- 34** Which term means: *To find the value of the unknown that makes an equation true.*

- 35** Which term means: *The value of the unknown that makes the equation true.*

- 36 Which term means: *A statement that one quantity is greater or less than another.*
-
- 37 Which term means: *Terms with exactly the same letters to the same powers.*
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- 38 Which term means: *To write your own formula from a situation.*
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E · Reading and writing algebra — Read algebraic language and know what each instruction asks for.

- 39 How do you read $5n$ aloud?
- ☐ five n
 - ☐ five plus n
 - ☐ n five
 - ☐ five to the n
- 40 How do you read a^2 aloud?
- ☐ a two
 - ☐ a squared
 - ☐ a cubed
 - ☐ two a
- 41 How do you read $x/2$ aloud?
- ☐ x two
 - ☐ x over two
 - ☐ two x
 - ☐ x minus two
- 42 In the instruction “simplify $3x + 2x$ ”, what are you being asked to do?
- ☐ Solve for x
 - ☐ Collect the like terms
 - ☐ Substitute a number
 - ☐ Expand a bracket
- 43 In the instruction “expand $4(n + 3)$ ”, what are you being asked to do?
- ☐ Solve for n
 - ☐ Remove the brackets by multiplying out
 - ☐ Make the expression longer on purpose
 - ☐ Substitute a value
- 44 In the instruction “solve $2y + 4 = 16$ ”, what are you being asked to do?
- ☐ Simplify the left-hand side
 - ☐ Find the value of y
 - ☐ Expand the brackets
 - ☐ Write a formula
- 45 A question says “substitute $x = 4$ ”. What do you do?
- ☐ Replace every x with 4
 - ☐ Solve for x
 - ☐ Multiply the whole expression by 4
 - ☐ Add 4 to the expression

46 A question says “derive a formula”. What do you do?

- ☐ Look one up
- ☐ Write your own formula for the situation
- ☐ Solve an equation
- ☐ Expand brackets