SUPER 12s

2 ALGEBRA
2.1 CONVENTIONS
2.1 LEVEL 1

NAME:_____

Skill description: Understanding algebraic language: term, coefficient, variable, expression, equation.

Essential Revision

1. $4 + 23 =$

2. $15 + 13 =$

3. $7 + 11 =$

4. $6 - 4 =$

5. $14 + 7 =$

6. $9 - 12 =$

7. $0 - 5 =$

8. $8 + 14 =$

9. $13 - 7 =$

10. $17 - 5 =$

11. $6 + 13 =$

12. $2 + 31 =$

Solutions can be found at the end of the booklet.

score $\frac{}{12}$

STRATEGIES TO SOLVE THE PROBLEMS

Term
Terms can be numbers, variables or a combination of numbers and variables connected by multiplication or division.

Example 1

$$5x - 7 = 8$$

$5x$, -7 and 8 are terms.

Example 2

$$4 - 2b = 15$$

4, $-2b$ and 15 are terms.

Variable
A variable is a letter that represents an unknown number or value.

Example 1

$$5x - 7 = 8$$

x is the variable.

Example 2

$$14 = 8b + 1$$

b is the variable.

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Coefficient
A coefficient is a number joined to a variable by multiplication. In algebra, the coefficient is always written before the variable.

Example 1

$$5x - 7 = 8$$

5 is the coefficient.

Example 2

$$14 = 8b + 1$$

8 is the coefficient.

Expression
An algebraic expression involves more than one term connected by operations.

Example 1

$$8b + 1$$

$8b + 1$ is an expression.

Example 2

$$5x - 7 = 8$$

$5x - 7$ is an expression.

Example 1

$$5x - 7 = 8$$

$5x - 7 = 8$ is an equation as it contains an $=$ sign and links terms of equal value.

Example 2

$$8b + 1$$

$8b + 1$ is NOT an equation as it does not contain an $=$ sign.

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QUESTIONS

1. Identify the terms.
$$2x + 3 = 13$$

2. Identify the coefficient.
$$3b - 4 = 8$$

3. Identify the variable.
$$14 - 2g = 4$$

4. Identify the expression.
$$y + 2 = 5$$

5. Which of these is an equation?
$$2b$$

$$3x = 12$$

$$4b - 4$$

6. Identify the terms.
$$9x + 3 = 12$$

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7. Identify the coefficient.
$$8c + 11 = 27$$

8. Identify the variable.
$$2x - 7 = 5$$

9. Identify the expression.
$$5 = 3c + 2$$

10. Which of these is an equation?

$$4b - 5$$

$$4x - 12$$

$$4b - 4 = 0$$

11. Identify the terms.
$$2x + 1 = 0$$

12. Identify the coefficient.
$$13 = 6c + 1$$
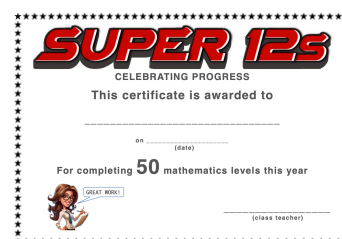
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MASTERY TEST

I'VE COMPLETED

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GREAT WORK!
(class teacher)

Solutions to Essential Revision

1.	27	2.	28
3.	18	4.	2
5.	21	6.	-3
7.	-5	8.	22
9.	6	10.	12
11.	19	12.	33

Solutions to Questions

1.	$2x, 3, 13$	2.	3
3.	g	4.	$y + 2$
5.	$3x = 12$	6.	$9x, 3, 12$
7.	8	8.	x
9.	$3c + 2$	10.	$4b - 4 = 0$
11.	$2x, 1, 0$	12.	6

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