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2 ALGEBRA

2.1 CONVENTIONS

2.1 LEVEL 3

NAME:_____

Skill description: Understanding algebraic conventions:

$3 \times x = 3x$ $x \times 3 = 3x$ $x \times y = xy$ $y \times x = xy$ *(alphabetical order)* $5 \div x = \frac{5}{x}$ $x \div 5 = \frac{x}{5}$

Essential Revision

1. Identify the terms.

$$5 - 2x = 3$$

2. Rewrite using correct algebraic conventions.

$$x^1$$

3. Identify the coefficient.

$$7x + 4 = 18$$

4. Rewrite using correct algebraic conventions.

$$c + 0$$

5. Identify the variable.

$$6 - y = 2$$

6. Rewrite using correct algebraic conventions.

$$1y$$

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7. Identify the expression.

$$6y + 1 = 13$$

8. Rewrite using correct algebraic conventions.

$$c \times c \times c \times c$$

9. Which of these is an equation?

$$3x - 12$$

$$b + 4$$

$$2b = 0$$

10. Rewrite using correct algebraic conventions.

$$b^1 - 0$$

11. Identify the terms.

$$2x - 1 = 15$$

12. Rewrite using correct algebraic conventions.

$$4 + 1b$$

Solutions can be found at the end of the booklet.

score $\overline{12}$

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Example 1

When a variable is multiplied by a number, the multiplication sign is dropped.

$$3 \times x = 3x$$

Example 2

When a variable is multiplied by a number, the number is written first and is known as the coefficient.

$$x \times 3 = 3x$$

Example 3

When two or more variables are multiplied, they are written alphabetically.

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$$x \times y = xy$$

$$y \times x = xy$$

Example 4

Division signs are not used in algebra; fractions are used instead.

$$5 \div x \text{ is written as } \frac{5}{x}$$

$$x \div 7 \text{ is written as } \frac{x}{7}$$

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1.
$$5 \times x$$

2.
$$x \times 8$$

3.
$$a \times c$$

4.
$$7 \div x$$

5.
$$7 \times x$$

6.
$$x \times 2$$

7.
$$e \times d$$

8.
$$x \div 2$$

9.
$$-4 \times x$$

10.
$$x \times (-3)$$

11.
$$c \times b$$

12.
$$5 \div 2x$$
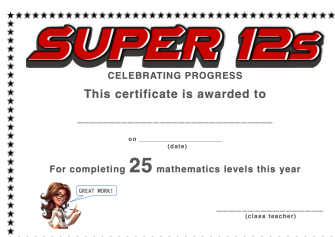
SOLUTIONS CAN BE FOUND AT THE END OF THE BOOKLET.

score $\overline{}$
12

Teacher's signature

I'VE COMPLETED

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LEVELS THIS YEAR

Solutions to Essential Revision

1.	$5, -2x, 3$	2.	x
3.	7	4.	c
5.	y	6.	y
7.	$6y + 1$	8.	c^4
9.	$2b = 0$	10.	b
11.	$2x, -1, 15$	12.	$4 + b$

Solutions to Questions

1.	$5x$	2.	$8x$
3.	ac	4.	$\frac{7}{x}$
5.	$7x$	6.	$2x$
7.	de	8.	$\frac{x}{2}$
9.	$-4x$	10.	$-3x$
11.	bc	12.	$\frac{5}{2x}$

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