

SUPER 12s



SUPER 12s CAN BE USED AS AN INDIVIDUALISED MASTERY LEARNING PROGRAM.

2 ALGEBRA
2.3 COLLECT LIKE TERMS
2.3 LEVEL 1

NAME: _____

Skill description: Identifying like terms.

Essential Revision

1. Identify the terms.

$$4 - 5x = 7$$

2. Rewrite using correct algebraic conventions.

$$y^1$$

3. Identify the coefficient.

$$6x + 1 = 8$$

4. Rewrite using correct algebraic conventions.

$$x + 0$$

5. Identify the variable.

$$2 - p = 5$$

6. Rewrite using correct algebraic conventions.

$$1c$$

7. Identify the expression.

$$4y + 5 = 1$$

8. Rewrite using correct algebraic conventions.

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

9. Which of these is an equation?

$$4x - 2$$

$$5b + 8$$

$$2b = 5$$

10. Rewrite using correct algebraic conventions.

$$x^1 - 0$$

11. Identify the terms.

$$6x - 2 = 5$$

12. Rewrite using correct algebraic conventions.

$$3 + 1x$$

Solutions can be found at the end of the booklet.

score
12

STRATEGIES TO SOLVE THE PROBLEMS

Like terms are terms with the same variables raised to the same powers.

Example 1

$$5x, 7x$$

They are like terms because the same variable x is raised to the same power.

Example 2

$$2y^3, 4y^3$$

They are like terms because the same variable y is raised to the same power.

Example 3

$$3xy^3, 5xy^3$$

They are like terms because the same variables, x and y , are raised to the same powers.

Example 4

$$5x, 7y$$

They are not like terms because the variable x is different to the variable y .

Example 5

$$5x, 7x^2$$

They are not like terms. Although they have the same variable, it is not raised to the same power.

Example 6

$$3x^2y^3, 5xy^3$$

They are not like terms because the powers of the variables in x^2y^3 are different to the powers of variables in xy^3 .

Like terms can be added and subtracted, as we will see in the next level.



QUESTIONS

Circle the like terms.

1.

$2x$, $2p$, $7x$, $5g$

2.

$3a^2$, $2a$, $7a$, $5a^3$

3.

$4a$, $2x^3$, $7a^2$, x^3

4.

$3b$, $9a$, y , b

5.

$3z^4$, $5c$, $3z^2$, $2c$

6.

$3a^2$, $2a^5$, $3a^5$, $5a^3$

7.

$5c$, $9c$, $7y$, $2b$

8.

$4a^3$, $4x^3$, $5a^2$, $2x^3$

9.

$4z^4$, $5c^2$, $2z^4$, $2c^5$

10.

$3yz^4$, yz^4 , $2yz^2$, $2yz$

11.

$5xy^3$, $3xy^4$, $2xy^2$, $4xy^2$

12.

ab^2 , $2ab$, xb^2 , $3ab^2$



SOLUTIONS CAN BE FOUND AT
THE END OF THE BOOKLET.

score $\frac{\quad}{12}$

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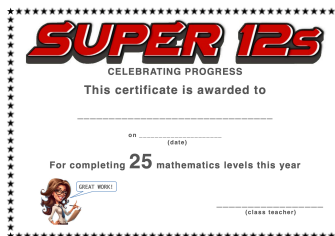
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MASTERY TEST

Teacher's signature

I'VE COMPLETED

LEVELS THIS YEAR



Solutions to Essential Revision

1. $4, -5x, 7$

2. y

3. 6

4. x

5. p

6. c

7. $4y + 5$

8. c^5

9. $2b = 5$

10. x

11. $6x, -2, 5$

12. $3 + x$

Solutions to Questions

1. $2x, 7x$

2. $2a, 7a$

3. $2x^3, x^3$

4. $3b, b$

5. $5c, 2c$

6. $2a^5, 3a^5$

7. $5c, 9c$

8. $4x^3, 2x^3$

9. $4z^4, 2z^4$

10. $3yz^4, yz^4$

11. $2xy^2, 4xy^2$

12. $ab^2, 3ab^2$