



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

- 2 ALGEBRA
- 2.4 MULTIPLICATION OF TERMS
- 2.4 LEVEL 6

NAME:

Skill description: Multiplication of algebraic terms that involve negatives and multiple variables with indices.

Essential Revision

1. Simplify.

 $3y \times 4y$

2. Simplify.

 $3p \times -9q$

3. Show that $3p \times -2q = -6pq$ by substituting p = 2 and q = 3.

4. Simplify.

 $5yz \times 4xy$

5. Simplify.

 $4x \times 7y$

6. Simplify.

 $5x \times -7y$

7. Show that
$$2x \times -5y = -10xy$$
 by substituting $x = 2$ and $y = 5$.

$$8$$
. Simplify.
$$6a^2b \times 3ab^2$$

$$5 \times 9p$$

$$-5 \times -11g$$

11. Show that
$$-4 \times -3g = 12g$$
 by substituting $g = 3$.

$$12.$$
 Simplify.

$$4ac \times 5bc$$

Solutions can be found at the end of the booklet.

score $\frac{}{12}$

STRATEGIES TO SOLVE THE PROBLEMS

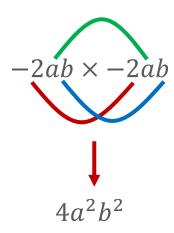
Example 1

Simplify.

$$-2ab \times -2ab$$

Step 1

Multiply the coefficients, then each variable - remembering your index rules.



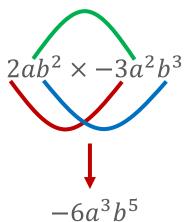
Example 2

Simplify.

$$2ab^2 \times -3a^2b^3$$

Step 1

Multiply the coefficients, then each variable - remembering your index rules.



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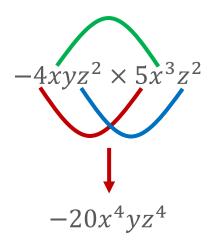
Example 3

Simplify.

$$-4xyz^2 \times 5x^3z^2$$

Step 1

Multiply the coefficients, then each variable - remembering your index rules.





UESTIONS Simplify.

$$-3abc \times 2bc$$

$$-3yz \times -5xy$$

3.

$$-6x \times -3xy$$

4.

$$2ac \times -bc$$

5.

$$-2ab \times 3ab$$

6.

$$-4x^2y \times 11xy^2$$

7

$$8ab^2 \times -5a^2b^2$$

8.

$$-xyz^2 \times -2x^2z^2$$

9.

$$-xyz \times xy$$

10.

$$-3abc^3 \times 3a^3bc^2$$

11.

$$-a \times -2abc$$

12.

$$-y^4z^2 \times 4x^2z^4$$



SOLUTIONS CAN BE FOUND AT THE END OF THE BOOKLET.

score

12

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MASTERY TEST

Teacher's signature

I'VE COMPLETED

LEVELS THIS YEAR





Solutions to Essential Revision

- $12y^2$
- -36 = -36
- 28xy
- -100 = -100
- 45*p*
- 36 = 36

- -27pq
- $20xy^2z$
- -35xy
- $18a^{3}b^{3}$
- 10. 55*g*
- $20abc^2$

Solutions to Questions

- $-6ab^2c^2$
- $18x^2y$
- 5. $-6a^2b^2$
- 7. $-40a^3b^4$
- $-x^2y^2z$
- $2a^2bc$

- 2. $15xy^2z$
- $-2abc^2$
- $-44x^3y^3$
- 10. $-9a^4b^2c^5$