



THIRD SPACE
LEARNING

GCSE Exam Questions

Brackets with Indices | Algebra

GCSE Exam Questions: Brackets with Indices

1) Simplify:

$$(5a^3b^4)^2$$

(2 marks)

2) Simplify:

$$(3g^2h)^4$$

(2 marks)

3) Simplify:

$$(2xy^5)^3$$

(2 marks)

4) Let $(2x^ay)^2 = 4x^6y^2$.

Write down the value of a .

(2 marks)

GCSE Exam Questions: Brackets with Indices Answers

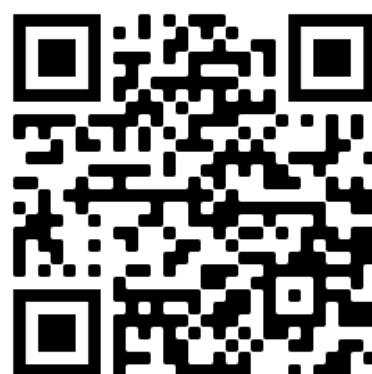
	Question	Answer	Marks
1)	Simplify: $(5a^3b^4)^2$	$25 \times a^6 \times b^8$ At least 2 correct terms $25a^6b^8$	(1) (1)
2)	Simplify: $(3g^2h)^4$	$81 \times g^8 \times h^4$ At least 2 correct terms $81g^8h^4$	(1) (1)
3)	Simplify: $(2xy^5)^3$	$8 \times x^3 \times y^{15}$ At least 2 correct terms $8x^3y^{15}$	(1) (1)
4)	Let $(2x^ay)^2 = 4x^6y^2$. Write down the value of a .	$4x^6y^2$ $a = 3$	(1) (1)

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

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