



THIRD SPACE  
LEARNING

# GCSE Exam Questions

Factorising (Mixed) | Algebra

## GCSE Exam Questions: Factorising (Mixed)

1) (a) Factorise

$9x - 18$

(1)

(b) Factorise fully

$16x^2 + 20xy$

(2)

(c) Factorise

$a^2 - 16$

(2)

(5 marks)

2) (a) Factorise fully

$12a - 16ab$

(1)

(b) Factorise

$x^2 - 3x - 10$

(2)

(c) Factorise

$2y^2 - 9y - 5$

(2)

(5 marks)

3) (a) Factorise fully

$6y^2 - 24$

(2)

(b) Factorise

$x^2 + 3x - 28$

(2)

(c) Factorise

$3y^2 - 4y - 4$

(2)

(6 marks)

## GCSE Exam Questions: Factorising (Mixed) Answers

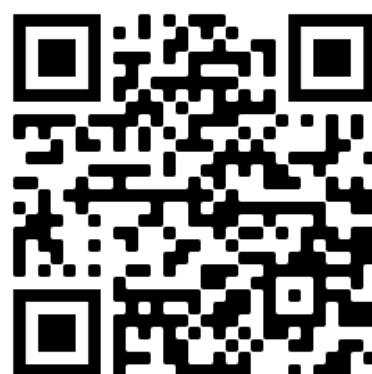
	Question	Answer	Marks
<b>1) (a)</b>	Factorise $9x - 18$	$9(x - 2)$	<b>(1)</b>
<b>(b)</b>	Factorise fully $16x^2 + 20xy$	$4x (...)$ $4x(4x + 5y)$	<b>(1)</b> <b>(1)</b>
<b>(c)</b>	Factorise $a^2 - 16$	$(a \pm 4)(a \pm 4)$ $(a + 4)(a - 4)$	<b>(1)</b> <b>(1)</b>
<b>2) (a)</b>	Factorise fully $12a - 16ab$	$4a(3 - 4b)$	<b>(1)</b>
<b>(b)</b>	Factorise $x^2 - 3x - 10$	$(x \pm 2)(x \pm 5)$ $(x + 2)(x - 5)$	<b>(1)</b> <b>(1)</b>
<b>(c)</b>	Factorise $2y^2 - 9y - 5$	$(2y \pm 1)(y \pm 5)$ $(2y + 1)(y - 5)$	<b>(1)</b> <b>(1)</b>
<b>3) (a)</b>	Factorise fully $6y^2 - 24$	$6(y^2 - 4)$ $6(y + 2)(y - 2)$	<b>(1)</b> <b>(1)</b>
<b>(b)</b>	Factorise $x^2 + 3x - 28$	$(x \pm 4)(x \pm 7)$ $(x - 4)(x + 7)$	<b>(1)</b> <b>(1)</b>
<b>(c)</b>	Factorise $3y^2 - 4y - 4$	$(3y \pm 2)(y \pm 2)$ $(3y + 2)(y - 2)$	<b>(1)</b> <b>(1)</b>

# 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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