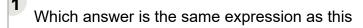# mobius

Math worksheet on *'Algebraic Functions - Multiply Bracketed Terms, Same Variable (Level 3)'*. Part of a broader unit on *'Polynomials and Quadratics - Intro'*

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1 Which answer is the same expression as this

$$(m + 4)(7m + 2)$$

a	$2m^2 - 8m + 30$	b	$2m^2 + 8m - 30$
c	$7m^2 + 8m + 30$	d	$7m^2 + 30m + 8$
e	$7m^2 + 30m - 8$	f	$7m^2 - 30m + 8$

2 Which answer is the same expression as this

$$(4z + 4)(z - 2)$$

a	$4z^2 - 6z - 8$	b	$4z^2 + 4z - 8$
c	$4z^2 - 6z - 8$	d	$2z^2 - 6z - 8$
e	$4z^2 - 4z - 8$	f	$4z^2 + 6z - 8$

3 Which answer is the same expression as this

$$(8n + 7)(n - 8)$$

a	$8n^2 + 15n - 56$	b	$8n^2 + 57n - 56$
c	$8n^2 - 15n - 56$	d	$8n^2 - 15n - 56$
e	$8n^2 - 15n - 56$	f	$8n^2 - 57n - 56$

4 Which answer is the same expression as this

$$(n + 3)(6n + 3)$$

a	$6n^2 - 21n + 9$	b	$6n^2 + 21n - 9$
c	$6n^2 + 9n + 21$	d	$3n^2 - 9n + 21$
e	$3n^2 + 9n - 21$	f	$6n^2 + 21n + 9$

5 Which answer is the same expression as this

$$(6n + 6)(n - 9)$$

a	$6n^2 + 48n - 54$	b	$6n^2 - 15n - 54$
c	$6n^2 - 48n - 54$	d	$6n^2 - 15n - 54$
e	$9n^2 - 15n - 54$	f	$6n^2 + 15n - 54$

6 Which answer is the same expression as this

$$(4b + 9)(b - 4)$$

a	$4b^2 - 13b - 36$	b	$4b^2 - 13b - 36$
c	$4b^2 + 13b - 36$	d	$4b^2 - 13b - 36$
e	$4b^2 + 7b - 36$	f	$4b^2 - 7b - 36$

7 Which answer is the same expression as this

$$(3y + 5)(y - 3)$$

a	$3y^2 - 8y - 15$	b	$3y^2 - 8y - 15$
c	$3y^2 + 4y - 15$	d	$3y^2 - 8y - 15$
e	$3y^2 + 8y - 15$	f	$3y^2 - 4y - 15$

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