mobius

Math worksheet on *'Algebraic Functions - Multiply Bracketed Terms, Same Variable (Level 4)'*. Part of a broader unit on *'Polynomials and Quadratics - Practice'*

Learn online:

app.mobius.academy/math/units/polynomials_and_quadratics_practice/

1 Which answer is the same expression as this

$$(4y - 8)(8y + 2)$$

a	$32y^2 - 56y - 16$	b	$4y^2 + 16y + 16$
c	$16y^2 + 16y - 16$	d	$4y^2 - 16y + 32$
e	$32y^2 - 32y - 16$	f	$32y^2 - y + 16$

2 Which answer is the same expression as this

$$(3z - 4)(7z - 7)$$

a	$28z^2 - 49z + 3$	b	$49z^2 + 49z + 28$
c	$49z^2 - z + 28$	d	$21z^2 + 49z - 28$
e	$21z^2 + 49z + 28$	f	$21z^2 - 49z + 28$

3 Which answer is the same expression as this

$$(9x - 4)(4x - 2)$$

a	$9x^2 + 8x + 34$	b	$34x^2 - 8x + 34$
c	$8x^2 - 34x + 2$	d	$34x^2 + 8x - 34$
e	$36x^2 - 34x + 8$	f	$34x^2 + x + 8$

4 Which answer is the same expression as this

$$(9c - 8)(9c + 6)$$

a	$81c^2 - c + 48$	b	$81c^2 - 81c - 48$
c	$81c^2 - 18c - 48$	d	$9c^2 + 48c + 81$
e	$48c^2 + 48c - 48$	f	$48c^2 + 81c + 20$

5 Which answer is the same expression as this

$$(9n - 7)(9n + 9)$$

a	$n^2 + 63n - 81$	b	$81n^2 - 81n - 63$
c	$81n^2 + 81n - 63$	d	$81n^2 + 18n - 63$
e	$81n^2 + n + 63$	f	$63n^2 - 63n - 63$

6 Which answer is the same expression as this

$$(3c - 6)(7c - 7)$$

a	$21c^2 + 63c + 42$	b	$3c^2 + 42c + 63$
c	$21c^2 + 63c - 42$	d	$21c^2 - 63c + 42$
e	$7c^2 + 63c - 42$	f	$63c^2 + 63c + 42$

7 Which answer is the same expression as this

$$(4c - 5)(7c + 2)$$

a	$4c^2 + 10c + 10$	b	$10c^2 + 28c + 10$
c	$10c^2 + 28c + 9$	d	$28c^2 + 28c - 10$
e	$4c^2 - 10c + 28$	f	$28c^2 - 27c - 10$