



Math worksheet on 'Algebraic Functions - Factor the Quadratic Equation with Coefficient (Level 1)'. Part of a broader unit on 'Polynomials and Quadratics - Advanced'

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1 Which answer is the same expression as this $24b^2 + 48b + 24$

a $(48b - 8)(8b + 3)$	b $(24b - 8)(b + 3)$
c $(8b + 8)(3b + 3)$	d $(8b + 8)(b + 3)$
e $(3b + 8)(b + 3)$	f $(3b + 8)(38b - 3)$

2 Which answer is the same expression as this $7z^2 + 55z + 42$

a $(z + 7)(7z + 6)$	b $(55z - 7)(6z + 6)$
c $(42z - 7)(z + 6)$	d $(7z + 7)(76z - 6)$
e $(7z + 7)(z + 6)$	f $(z + 7)(z + 6)$

3 Which answer is the same expression as this $14p^2 + 66p + 40$

a $(7p + 5)(p + 8)$	b $(2p + 5)(p + 8)$
c $(66p - 5)(7p + 8)$	d $(40p - 5)(p + 8)$
e $(7p + 5)(2p + 8)$	f $(2p + 5)(27p - 8)$

4 Which answer is the same expression as this $63r^2 + 41r + 6$

a $(41r - 2)(9r + 3)$	b $(7r + 2)(r + 3)$
c $(9r + 2)(r + 3)$	d $(6r - 2)(r + 3)$
e $(7r + 2)(79r - 3)$	f $(9r + 2)(7r + 3)$

5 Which answer is the same expression as this $30y^2 + 87y + 63$

a $(6y + 9)(5y + 7)$	b $(5y + 9)(56y - 7)$
c $(63y - 9)(y + 7)$	d $(5y + 9)(y + 7)$
e $(6y + 9)(y + 7)$	f $(87y - 9)(6y + 7)$

6 Which answer is the same expression as this $36b^2 + 90b + 54$

a $(4b + 6)(b + 9)$	b $(54b - 6)(b + 9)$
c $(9b + 6)(b + 9)$	d $(4b + 6)(9b + 9)$
e $(9b + 6)(94b - 9)$	f $(90b - 6)(4b + 9)$

7 Which answer is the same expression as this $10p^2 + 51p + 27$

a $(5p + 3)(p + 9)$	b $(27p - 3)(p + 9)$
c $(2p + 3)(25p - 9)$	d $(5p + 3)(2p + 9)$
e $(2p + 3)(p + 9)$	f $(51p - 3)(5p + 9)$