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Math worksheet on *'Algebraic Functions - Simplify to Bracketed Terms, Different Variables, with Coefficient (Level 2)'*. Part of a broader unit on *'Polynomials and Quadratics - Advanced'*

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1 Which answer is the same expression as this

$$9cp - 12p - 9c + 12$$

a	$(3c+3)(4p-4)$	**b**	$(3c-4)(3p-3)$
c	$(3c-4)(3p+3)$	**d**	$(c-3)(3p-4)$
e	$(3c+4)(3p-3)$	**f**	$(3c+9)(3p-4)$

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2 Which answer is the same expression as this

$$30yn + 10n - 54y - 18$$

a	$(6y-2)(5n+9)$	**b**	$(5y+30)(6n+2)$
c	$(6y+2)(5n-9)$	**d**	$(y-6)(5n+2)$
e	$(6y+6)(2n-2)$	**f**	$(6y-2)(5n-9)$

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3 Which answer is the same expression as this

$$56pz + 32z + 21p + 12$$

a	$(7p-4)(8z-3)$	**b**	$(7p+7)(4z-4)$
c	$(7p-4)(8z+3)$	**d**	$(7p+4)(8z+3)$
e	$(p-7)(8z+4)$	**f**	$(7p+4)(8z-3)$

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4 Which answer is the same expression as this

$$12cz - 54z - 10c + 45$$

a	$(2c+9)(6z-5)$	**b**	$(2c-9)(6z-5)$
c	$(6c+12)(2z-9)$	**d**	$(c-2)(6z-9)$
e	$(2c+2)(9z-9)$	**f**	$(2c-9)(6z+5)$

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5 Which answer is the same expression as this

$$10rz + 45z - 14r - 63$$

a	$(r-2)(5z+9)$	**b**	$(2r+2)(9z-9)$
c	$(2r+9)(5z-7)$	**d**	$(5r+10)(2z+9)$
e	$(2r-9)(5z-7)$	**f**	$(2r-9)(5z+7)$

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6 Which answer is the same expression as this

$$36zx + 28x + 81z + 63$$

a	$(9z+9)(7x-7)$	**b**	$(z-9)(4x+7)$
c	$(9z-7)(4x+9)$	**d**	$(9z-7)(4x-9)$
e	$(9z+7)(4x+9)$	**f**	$(9z+7)(4x-9)$

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7 Which answer is the same expression as this

$$30xy - 42y - 35x + 49$$

a	$(5x+5)(7y-7)$	**b**	$(6x+30)(5y-7)$
c	$(x-5)(6y-7)$	**d**	$(5x-7)(6y-7)$
e	$(5x-7)(6y+7)$	**f**	$(5x+7)(6y-7)$